# Mathematical Reviews

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**Osikiewicz, Jeffrey A.** Equivalence results for Cesàro submethods. (English summary) **2001c:40005**
**Patterson, Richard F.** A characterization for the limit points of double sequences. (English summary) **2001d:40006b**
— Analogues of some fundamental theorems of summability theory. (English summary) **2001d:40006a**

### 40D25 Inclusion and equivalence theorems

**Bor, Hüseyin** A note on an inclusion theorem. (English summary) **2001k:40004**
**Herzog, Monika** Some remarks about a generalized method of summability of series. (English summary) **2001d:40007**

Items with secondary classifications in 40D25

**Balser, Werner** (*with* Braun, Rüdiger W.) Power series methods and multisummability. (English summary) **2001d:34146**
**Bhardwaj, Vinod K.** (*with* Singh, Niranjan) Some sequence spaces defined by Orlicz functions. (English summary) **2001g:46012**
**Boos, Johann** (*with* Parameswaran, M. R.) The potency of weighted means: addendum to a paper of Kuttner and Parameswaran. (English summary) **2001g:40006**
**Braun, Rüdiger W.** *see* **Balser, Werner, 2001d:34146**
**Li, Jinlu** Matrix transformations from absolutely convergent series to convergent sequences as general weighted mean summability methods. (English summary) **2001j:40002**
**Mishra, Babban Prasad** (*with* Singh, Bhrigu Nath) Product summability methods $A_\lambda(C,\alpha)$ of infinite series. **2001h:40008**
— (*with* Shukla, Gunjeshwar) Strong summability of functions based on $(A_\lambda)$ summability methods. (English summary) **2001e:40007**
**Osikiewicz, Jeffrey A.** Equivalence results for Cesàro submethods. (English summary) **2001c:40005**
**Parameswaran, M. R.** *see* **Boos, Johann, 2001g:40006**
**Shukla, Gunjeshwar** *see* **Mishra, Babban Prasad, 2001e:40007**
**Singh, Bhrigu Nath** *see* **Mishra, Babban Prasad, 2001h:40008**
**Singh, Niranjan** *see* **Bhardwaj, Vinod K., 2001g:46012**
**Yardimci, Seyhmus** Core equality theorems for real bounded sequences. (English summary) **2001f:40005**

## 40Exx Inversion theorems

### 40E05 Tauberian theorems, general

**Bingham, Nicholas H.** (*with* Inoue, Akihiko) Extension of the Drasin-Shea-Jordan theorem. (English summary) **2001d:40008**
**Canak, I.** *see* **Stanojević, Časlav V. et al., 2001d:40009**
**Inoue, Akihiko** *see* **Bingham, Nicholas H., 2001d:40008**
**Kosugi, Nobuko** Tauberian theorem of exponential type on limits of oscillation. **2001m:40008**
— Correction to: "Tauberian theorem of exponential type and its application to multiple convolution" [J. Math. Kyoto Univ. **39** (1999), no. 2, 331–346; MR 2000m:40011]. **2001m:40009**
**Móricz, Ferenc** (*with* Németh, Zoltán[1]) Tauberian conditions under which convergence of integrals follows from summability $(C,1)$ over $\mathbf{R}_+$. (English and Russian summaries) **2001j:40004**
— Tauberian theorems for Cesàro summable double integrals over $\mathbf{R}_+^2$. (English summary) **2001f:40007**
**Németh, Zoltán[1]** *see* **Móricz, Ferenc, 2001j:40004**
**Sõrmus, Tamara** Tauberian theorems for generalized summability methods in Banach spaces. (English and Estonian summaries) **2001f:40008**
**Stanojević, Časlav V.** (*with* Canak, I.; Stanojević, V. B.) Tauberian theorems for generalized abelian summability methods. (English summary) **2001d:40009**
**Stanojević, V. B.** *see* **Stanojević, Časlav V. et al., 2001d:40009**
**Tammeraid, Ivar** Tauberian remainder theorems for two families of summability methods. (English and Estonian summaries) **2001m:40010**

Items with secondary classifications in 40E05

**Chen, Chang-Pao** (*with* Hsu, Jui-Ming) Tauberian theorems for weighted means of double sequences. (English and Russian summaries) **2001m:40005**
**Hsu, Jui-Ming** *see* **Chen, Chang-Pao, 2001m:40005**
**Maddox, Ivor J.** Concepts of slow oscillation. (English summary) **2001i:46006**
**Stadtmüller, Ulrich** (*with* Trautner, R.) Continuity theorems and ratio-Tauberian theorems for integral transforms. (English summary) **2001g:44001**
**Trautner, R.** *see* **Stadtmüller, Ulrich, 2001g:44001**

### 40E10 Growth estimates

**Tietz, Hubert** (*with* Zeller, Karl) Einseitige $O$-Tauber-Bedingungen für Teilwirkfelder mit Abschnittskonvergenz. (German summary) [One-sided $O$-Tauberian conditions for partial fields of effectiveness with sectional convergence] **2001b:40005**
— (*with* Zeller, Karl) Tauber-Sätze für Kreisverfahren und der Satz von Müntz. (English summary) [Tauberian theorems for circle methods and the Müntz theorem] **2001h:40009**
**Zeller, Karl** *see* **Tietz, Hubert, 2001b:40005** *and* **2001h:40009**

### 40E15 Lacunary inversion theorems

Items with secondary classifications in 40E15

**Tietz, Hubert** (*with* Zeller, Karl) Einseitige $O$-Tauber-Bedingungen für Teilwirkfelder mit Abschnittskonvergenz. (German summary) [One-sided $O$-Tauberian conditions for partial fields of effectiveness with sectional convergence] **2001b:40005**
**Zeller, Karl** *see* **Tietz, Hubert, 2001b:40005**

### 40E99 None of the above, but in this section

**Dekanov, S. Ya.** (*with* Mikhalin, G. A.) Generalization of a theorem of the Rogosinskis. (Ukrainian. English and Ukrainian summaries) **2001h:40010**
**Mikhalin, G. A.** *see* **Dekanov, S. Ya., 2001h:40010**

## 40F05 Absolute and strong summability

**Bor, Hüseyin** On an inclusion theorem. (English summary) **2001g:40009**
— (*with* Özarslan, H. S.) On absolute Riesz summability factors. (English summary) **2001e:40006**
**Kishore, Nand** (*with* Misra, U. K.; Sahu, K.) On $|N, p_n|_k$-summability factors of infinite series. (English summary) **2001d:40010**
**Mishra, Babban Prasad** (*with* Pathak, Sachchida Nand) Absolute summability of functions based on $A(C, k)$ summability methods. **2001d:40011**
— (*with* Shukla, Gunjeshwar) Strong summability of functions based on $(A_\lambda)$ summability methods. (English summary) **2001e:40007**
**Misra, U. K.** *see* **Kishore, Nand et al., 2001d:40010**
**Nanda, Sudarsan** Absolute and strong almost convergence with indices defined by moduli. **2001b:40006**
**Özarslan, H. S.** *see* **Bor, Hüseyin, 2001e:40006**
**Patel, N. V.** *see* **Tripathi, Sanjay, 2001d:40012**
**Pathak, Sachchida Nand** *see* **Mishra, Babban Prasad, 2001d:40011**
**Pati, T.** Generalization of a theorem of Kogbetliantz on absolute summability. (English summary) **2001i:40004**
**Sahu, K.** *see* **Kishore, Nand et al., 2001d:40010**
**Sharma, Neeta** *see* **Singh, Niranjan, 2001e:40008**
**Shukla, Gunjeshwar** *see* **Mishra, Babban Prasad, 2001e:40007**
**Singh, Niranjan** (*with* Sharma, Neeta) On $|\overline{N}, p_n|k$ summability factors of infinite series. I. (English summary) **2001e:40008**
**Tripathi, Sanjay** (*with* Patel, N. V.) On $|\overline{N}, q_n|_k$ summability factors of infinite series. (English summary) **2001d:40012**

### Items with secondary classifications in 40F05

**Baron, S.** (*with* Peyerimhoff, A.) Complete proofs of the main theorems on summability factors. (English summary) **2001m:40006**
**Bor, Hüseyin** An application of almost increasing sequences. (English summary) **2001c:40006**
— On the absolute Nörlund summability factors. (English summary) **2001m:40007**
— A note on an inclusion theorem. (English summary) **2001k:40004**
**Chisti, T. A.** (*with* Mursaleen) Strongly $\alpha$-convergent sequences defined by Orlicz functions. (English summary) **2001d:40014**
**Dalai, Dhirendra Kumar** *see* **Jena, Subas Chandra et al.**
**Dikshit, G. D.** Absolute Nevanlinna summability and Fourier series. (English summary) **2001f:42005**
**Jena, Subas Chandra** (*with* Swain, Sakuntala; Dalai, Dhirendra Kumar) Absolute generalised Cesaro summability of a Fourier series. (English summary)
**Kolk, Enno** On sequence spaces defined by a regularly varying modulus. (English summary) **2001m:46006**
**Mursaleen** *see* **Chisti, T. A., 2001d:40014**
**Peyerimhoff, A.** *see* **Baron, S., 2001m:40006**
**Soomer, Virge** On sequence spaces defined by a sequence of moduli and an extension of Kuttner's theorem. (English summary) **2001b:40008**
— Sequence spaces defined by a sequence of modulus functions and $\mathscr{L}$-nearly convergence. (English summary) **2001c:40001**
**Sulaiman, W. T.** Characterization on some absolute summability factors of infinite series. (English summary) **2001b:40004**
**Swain, Sakuntala** *see* **Jena, Subas Chandra et al.**

## 40Gxx Special methods of summability

### 40G05 Cesàro, Euler, Nörlund and Hausdorff methods

**Keating, Jonathan P.** (*with* Reade, J. B.) Summability of alternating gap series. (English summary) **2001a:40004**
**Reade, J. B.** *see* **Keating, Jonathan P., 2001a:40004**
**Subrahmanyam, P. V.** Cesàro summability for fuzzy real numbers. (English summary) **2001a:40005**
**Sulaiman, W. T.** Generalization of some absolute summability methods. (English summary) **2001k:40005**

### Items with secondary classifications in 40G05

**Baron, S.** (*with* Peyerimhoff, A.) Complete proofs of the main theorems on summability factors. (English summary) **2001m:40006**
**Bhardwaj, Vinod K.** (*with* Singh, Niranjan) Some sequence spaces defined by $|\overline{N}, p_n|$ summability and an Orlicz function. (English summary) **2001e:40008**
**Bor, Hüseyin** On the absolute Nörlund summability factors. (English summary) **2001m:40007**
— A note on an inclusion theorem. (English summary) **2001k:40004**
**Borwein, David** Weighted mean operators on $l_p$. (English summary) **2001i:47049**
**Butzer, Paul L.** (*with* Jansche, Stefan) Mellin-Fourier series and the classical Mellin transform. (English summary) **2001h:44011**
**Canak, I.** *see* **Stanojević, Časlav V. et al., 2001d:40009**
**Chandrasekhara Rao, K.** (*with* Singaravel, T. M.) Some transformations of type $M$. (English summary)
**Dalai, Dhirendra Kumar** *see* **Jena, Subas Chandra et al.**
**Gát, György** On $(C, 1)$ summability for Vilenkin-like systems. (English summary) **2001k:42033**
**Jansche, Stefan** *see* **Butzer, Paul L., 2001h:44011**
**Jena, Subas Chandra** (*with* Swain, Sakuntala; Dalai, Dhirendra Kumar) Absolute generalised Cesaro summability of a Fourier series. (English summary)
**Kiesel, Rüdiger** (*with* Stadtmüller, Ulrich) A large deviation principle for weighted sums of independent identically distributed random variables. (English summary) **2001j:60052**
**Kishore, Nand** (*with* Misra, U. K.; Sahu, K.) On $|N, p_n|_k$-summability factors of infinite series. (English summary) **2001d:40010**
**Li, Jinlu** Matrix transformations from absolutely convergent series to convergent sequences as general weighted mean summability methods. (English summary) **2001j:40002**
**Li, Zhongkai** (*with* Xu, Yuan[1]) Summability of product Jacobi expansions. (English summary) **2001i:42048**
**Misra, U. K.** *see* **Kishore, Nand et al., 2001d:40010**
**Móricz, Ferenc** (*with* Németh, Zoltán[1]) Tauberian conditions under which convergence of integrals follows from summability $(C, 1)$ over $\mathbf{R}_+$. (English and Russian summaries) **2001j:40004**
— Tauberian theorems for Cesàro summable double integrals over $\mathbf{R}_+^2$. (English summary) **2001f:40007**
**Németh, Zoltán[1]** *see* **Móricz, Ferenc, 2001j:40004**
**Osikiewicz, Jeffrey A.** Equivalence results for Cesàro submethods. (English summary) **2001c:40005**
**Patel, N. V.** *see* **Tripathi, Sanjay, 2001d:40012**
**Pati, T.** Generalization of a theorem of Kogbetliantz on absolute summability. (English summary) **2001i:40004**
**Peyerimhoff, A.** *see* **Baron, S., 2001m:40006**
**Rudolf, Oliver** Hausdorff-Operatoren auf BK-Räumen und Halbgruppen linearer Operatoren. [Hausdorff operators on BK-spaces and semigroups of linear operators] **2001h:47052**
**Sahu, K.** *see* **Kishore, Nand et al., 2001d:40010**
**Sharma, Neeta** *see* **Singh, Niranjan, 2001e:40008**
**Singaravel, T. M.** *see* **Chandrasekhara Rao, K.**
**Singh, Niranjan** (*with* Sharma, Neeta) On $|\overline{N}, p_n|k$ summability factors of infinite series. I. (English summary) **2001e:40008**
— *see also* **Bhardwaj, Vinod K., 2001c:40008**
**Stadtmüller, Ulrich** *see* **Kiesel, Rüdiger, 2001j:60052**
**Stanojević, Časlav V.** (*with* Canak, I.; Stanojević, V. B.) Tauberian theorems for generalized abelian summability methods. (English summary) **2001d:40009**
**Stanojević, V. B.** *see* **Stanojević, Časlav V. et al., 2001d:40009**
**Swain, Sakuntala** *see* **Jena, Subas Chandra et al.**
**Tammeraid, Ivar** Tauberian remainder theorems for two families of summability methods. (English and Estonian summaries) **2001m:40010**
**Tripathi, Sanjay** (*with* Patel, N. V.) On $|\overline{N}, q_n|_k$ summability factors of infinite series. (English summary) **2001d:40012**
**Tuncer, A. Nihal** Factors for absolute Cesàro summability. (English summary) **2001j:40003**
**Xu, Yuan[1]** *see* **Li, Zhongkai, 2001i:42048**

### 40G10 Abel, Borel and power series methods

**Lemma, Mulatu** The $l$-translativity of Abel-type matrix. (English summary) **2001i:40005**

### Items with secondary classifications in 40G10

**Falaleev, L. P.** Approximation of conjugate functions by generalized Abel-Poisson operators. (Russian. Russian summary) **2001e:42004**
**Keating, Jonathan P.** (*with* Reade, J. B.) Summability of alternating gap series. (English summary) **2001a:40004**
**Kiesel, Rüdiger** (*with* Stadtmüller, Ulrich) A large deviation principle for weighted sums of independent identically distributed random variables. (English summary) **2001j:60052**
**Majima, Hideyuki** A vanishing theorem in asymptotic analysis with asymptotic estimates of coefficients of "asymptotic series" in several variables. (English summary) **2001k:34158**
**Mishra, Babban Prasad** (*with* Singh, Bhrigu Nath) Product summability methods $A_\lambda(C, \alpha)$ of infinite series. **2001h:40008**
— (*with* Shukla, Gunjeshwar) Strong summability of functions based on $(A_\lambda)$ summability methods. (English summary) **2001e:40007**
**Reade, J. B.** *see* **Keating, Jonathan P., 2001a:40004**
**Shukla, Gunjeshwar** *see* **Mishra, Babban Prasad, 2001e:40007**
**Singh, Bhrigu Nath** *see* **Mishra, Babban Prasad, 2001h:40008**
**Stadtmüller, Ulrich** *see* **Kiesel, Rüdiger, 2001j:60052**

### 40G99 None of the above, but in this section

### Items with secondary classifications in 40G99

**Bor, Hüseyin** On an inclusion theorem. (English summary) **2001g:40009**
**Chen, Chang-Pao** (*with* Hsu, Jui-Ming) Tauberian theorems for weighted means of double sequences. (English and Russian summaries) **2001m:40005**
**Dikshit, G. D.** Absolute Nevanlinna summability and Fourier series. (English summary) **2001f:42005**
**Hsu, Jui-Ming** *see* **Chen, Chang-Pao, 2001m:40005**
**Mishra, Babban Prasad** (*with* Pathak, Sachchida Nand) Absolute summability of functions based on $A(C, k)$ summability methods. **2001d:40011**
**Neelon, Tejinder S.** On solutions to formal equations. (English summary) **2001h:13027**
**Pathak, Sachchida Nand** *see* **Mishra, Babban Prasad, 2001d:40011**

## 40H05 Functional analytic methods in summability

**Ahmad, Zaheer** (*with* Mursaleen; Qamaruddin) Invariant means and some matrix transformations. (English summary) **2001m:40011**
**Altin, Yilmaz** A note on matrix transformations over non-Archimedian fields. (English summary) **2001c:40007**
— Matrix transformations on certain sequence spaces. **2001b:40007**
**Bhardwaj, Vinod K.** (*with* Singh, Niranjan) Some sequence spaces defined by $|\overline{N}, p_n|$ summability and an Orlicz function. (English summary) **2001c:40008**
**Bilgin, Tunay** (*with* Tunç, Ercan) Matrix transformation of $l(p, s)$ to $l_\infty(p)$ and $c_0(p)$. (English summary) **2001g:40010**
**Chandrasekhara Rao, K.** (*with* Subramanian, N.) Matrix transformations of some sequence spaces. **2001d:40013**
**Deheri, G. M.** Structure of matrix transformations on Köthe sequence spaces having generalized bases. (English summary) **2001c:40009**

**Demirci, Kamil** (*with* Orhan, C.) Bounded multipliers of bounded $A$-statistically convergent sequences. (English summary) **2001e:40009**
**Esi, Ayhan** Some new sequence spaces defined by a modulus function. (English summary) **2001c:40010**
**Et, Mikail** On some generalized Cesàro difference sequence spaces. (English summary) **2001i:40006**
**Malkowsky, Eberhard** (*with* Savaş, Ekrem) Matrix transformations in some spaces of almost summable and bounded sequences. (English summary) **2001f:40009**
— (*with* Savaş, Ekrem) Some $\lambda$-sequence spaces defined by a modulus. (English summary) **2001m:40012**
**Mursaleen** *see* **Ahmad, Zaheer et al., 2001m:40011**
**Orhan, C.** *see* **Demirci, Kamil, 2001e:40009**
**Qamaruddin** *see* **Ahmad, Zaheer et al., 2001m:40011**
**Savaş, Ekrem** *see* **Malkowsky, Eberhard, 2001f:40009** *and* **2001m:40012**
**Singh, Niranjan** *see* **Bhardwaj, Vinod K., 2001c:40008**
**Soomer, Virge** On sequence spaces defined by a sequence of moduli and an extension of Kuttner's theorem. (English summary) **2001b:40008**
**Suantai, Suthep** Matrix transformations of some vector-valued sequence spaces. **2001h:40011**
**Subramanian, N.** *see* **Chandrasekhara Rao, K., 2001d:40013**
**Tunç, Ercan** *see* **Bilgin, Tunay, 2001g:40010**
**Usenko, Ê. G.** A criterion for the coincidence of the kernel of a function with the kernel of its integral almost positive means. (Ukrainian. English and Ukrainian summaries) **2001a:40006**
**Waszak, A.** A theorem on monotonicity of matrix methods of summability of double sequences. (English summary) **2001e:40010**

Items with secondary classifications in 40H05

**Carroll, M. T.** Invariance of the Wilansky property. (English summary) **2001b:46019**
**Chandrasekhara Rao, K.** (*with* Singaravel, T. M.) On the space of the null sequences. (English summary)
**Chen, Jian Ren** *see* **Zhou, Yu Ying et al., 2001b:46030**
**Chen, Shu Tao** *see* **Zhou, Yu Ying et al., 2001b:46030**
**Choudhary, B.** *see* **Parashar, S. D., 2001k:40002**
**Çoşkun, Hüsamettin** On the series methods containing the method $V_\sigma$. (English summary) **2001c:40012**
**Ghosh, S. K.** *see* **Tripathy, B. K., 2001b:15037**
**Ince, H. G.** Cesáro conull FK-spaces. (English summary) **2001g:46013**
**Jarrah, A. M.** (*with* Malkowsky, Eberhard) The second dual spaces of the sets of $\Lambda$-strongly convergent and bounded sequences. (English summary) **2001d:46018**
— (*with* Malkowsky, Eberhard) The dual spaces of the sets of $\Lambda$-strongly convergent and bounded sequences. (English summary) **2001h:46002**
**Malkowsky, Eberhard** (*with* Rakočević, Vladimir) The measure of noncompactness of linear operators between spaces of $m$th-order difference sequences. (English summary) **2001d:47043**
— (*with* Rakočević, Vladimir) An introduction into the theory of sequence spaces and measures of noncompactness. **2001i:46010**
— *see also* **Jarrah, A. M., 2001d:46018** *and* **2001h:46002**
**Parashar, S. D.** (*with* Choudhary, B.) Matrix transformation of certain sequence spaces through matrix product. (English summary) **2001k:40002**
**Rakočević, Vladimir** *see* **Malkowsky, Eberhard, 2001d:47043** *and* **2001i:46010**
**Rath, D.** Spaces of $r$-convex sequences and matrix transformations. (English summary) **2001c:46007**
**Rhoades, Billy E.** Comments on a paper: "On the spectrum of the Rhaly operators on $c_0$ and $c$" [Indian J. Pure Appl. Math. **29** (1998), no. 12, 1301–1309; MR 2000f:47055] by M. Yildirim. (English summary) **2001m:47061**
**Rodríguez-Salinas, Baltasar** On generalized limits and Toeplitz's algorithm. (English summary) **2001h:40007**
**Singaravel, T. M.** *see* **Chandrasekhara Rao, K.**
**Soomer, Virge** Sequence spaces defined by a sequence of modulus functions and $\mathscr{X}$-nearly convergence. (English summary) **2001c:40001**
**Srivastava, B. K.** *see* **Srivastava, J. K., 2001e:46012**
**Srivastava, J. K.** (*with* Srivastava, B. K.) Matrix transformations involving certain Banach space valued sequence spaces. (English summary) **2001e:46012**
**Tietz, Hubert** (*with* Zeller, Karl) Tauber-Sätze für Kreisverfahren und der Satz von Müntz. (English summary) [Tauberian theorems for circle methods and the Müntz theorem] **2001h:40009**
**Tripathy, B. K.** (*with* Ghosh, S. K.) Maximal group of triangular conservative matrices and bidiagonal methods. **2001b:15037**
**(Yıldırım, Mehmet)** *see* **Rhoades, Billy E., 2001m:47061**
**Zeller, Karl** *see* **Tietz, Hubert, 2001h:40009**
**Zhou, Yu Ying** (*with* Chen, Jian Ren; Chen, Shu Tao) Sequences that are sub-asymptotically isometric to $c_0$. (Chinese. English and Chinese summaries) **2001b:46030**

## 40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

**Bulut, E.** Statistical $h$-regular series methods in topological groups. (English summary) **2001c:40011**
**Chisti, T. A.** (*with* Mursaleen) Strongly $\alpha$-convergent sequences defined by Orlicz functions. (English summary) **2001d:40014**
**Çoşkun, Hüsamettin** On the series methods containing the method $V_\sigma$. (English summary) **2001c:40012**
**Kalarani, V.** On the summability of pairs of sequences in a nonarchimedean field. (English summary) (*see* **2000j:00035**)
**Mursaleen** *see* **Chisti, T. A., 2001d:40014**
**Musielak, Julian** Nonlinear integral operators and summability in $\mathbf{R}^2$. (English summary) **2001d:40015**
**Natarajan, P. N.** (*with* Srinivasan, Vaithinathsamy) Convolution of generalized Nörlund methods in non-Archimedean fields. (English summary) **2001e:40011**
— Failure of two classical summability theorems in non-Archimedean analysis. (English summary) **2001c:40013**
— A theorem on multiplication of series in non-Archimedean analysis. (English summary) **2001a:40007**
**Srinivasan, Vaithinathsamy** *see* **Natarajan, P. N., 2001e:40011**

Items with secondary classifications in 40J05

**Connor, Jeff** A topological and functional analytic approach to statistical convergence. (English summary) **2001d:40001**

# 41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

## 41–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

**Micula, Gheorghe** (*with* Micula, Sanda) ★ Handbook of splines. (English summary) **2001a:41001**
**Micula, Sanda** *see* **Micula, Gheorghe, 2001a:41001**

## 41–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 41–01

**Micula, Gheorghe** (*with* Micula, Sanda) ★ Handbook of splines. (English summary) **2001a:41001**
**Micula, Sanda** *see* **Micula, Gheorghe, 2001a:41001**

## 41–02 Research exposition (monographs, survey articles)

**Anastassiou, George A.** ★ Quantitative approximations. (English summary) **2001h:41001**
**Khlobystov, V. V.** *see* **Makarov, Vladimir L., 2001a:41002**
**Kvasov, Boris I.** ★ Methods of shape-preserving spline approximation. (English summary) **2001m:41001**
**Makarov, Vladimir L.** (*with* Khlobystov, V. V.) ★ Основы теории полиномиального операторного интерполирования. (Russian. English and Ukrainian summaries) [Principles of the theory of polynomial operator interpolation] **2001a:41002**
**Mitrea, Alexandru I.** ★ Convergence and superdense unbounded divergence in approximation theory. (English summary) **2001g:41001**

Items with secondary classifications in 41–02

**Campiti, Michele** Binomial-type coefficients and classical approximation processes. (English summary) **2001g:41035**
**Chikvinidze, L. N.** Approximation of functions in domains with a quasiconformal boundary in weighted plane integral metrics. (Russian. English summary) **2001j:41023**
**Daras, Nicholas J.** Padé and Padé-type approximation for $2\pi$-periodic $L^p$ functions. (English summary) **2001j:41016**
**Gasca, Mariano** (*with* Sauer, Thomas) Polynomial interpolation in several variables. (English summary) **2001d:41010**
**Hong, Dong** On scattered data representations using bivariate splines. (English summary) **2001g:41014**
**Kilgore, Theodore** On the simultaneous approximation of functions and their derivatives. (English summary) **2001k:41018**
**Lorentz, Rudolph** Multivariate Hermite interpolation by algebraic polynomials: a survey. (English summary) **2001k:41034**
**Lyness, J. N.** A brief survey of extrapolation quadrature. (English summary)
**Motornaya, O. V.** *see* **Motornyĭ, V. P., 2001a:41010**
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## 41A20 Approximation by rational functions

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## 41A21 Padé approximation

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## 41A25 Rate of convergence, degree of approximation

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**Bojanic, Ranko** (*with* Della Vecchia, Biancamaria; Mastroianni, Giuseppe) On the approximation of bounded functions with discontinuities of the first kind by generalized Shepard operators. (English summary) **2001b:41030**
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**D'yachenko, M. I.** The rate of Pringsheim convergence of multiple Fourier series of piecewise-monotone functions of several variables in the space $L$. (Russian. English and Russian summaries) **2001i:42016**
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**Liu, Xi Wu** *see* **Guo, Shun Sheng et al., 2001h:41036**
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**Păltănea, Radu** New types of estimates with moduli of continuity. (*see* **2001i:41001**)
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**Potapov, Mikhail Konstantinovich** On the approximation of functions characterized by a nonsymmetric generalized shift operator. (Russian) **2001g:41009**
**Prasad, Jagdish** (*with* Jhunjhunwala, N.) Remarks on the order of approximation of Hermite and Hermite-Fejér interpolation on Jacobi abscissas of $P_n^{(\alpha,\alpha)}(x)$.
**Prokhorov, V. A.** Rates of best rational approximation of analytic functions. (English summary) **2001k:30053**
**Pustylnik, Evgenii** The rate of convergence of Fourier series with respect to the eigenfunctions of a positive operator. (English summary) **2001e:47031**
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**Revers, Michael** On Lagrange interpolatory parabolas to $|x|^\alpha$ at equally spaced nodes. (English summary) **2001d:41007**
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**Shevchuk, Igor A.** *see* **Gonska, Heinz H. et al., 2001h:41007** *and* **Leviatan, Dany, 2001h:41029**
**Shirokov, N. A.** *see* **Davydova, T. S., 2001i:41004** *and* **Krasheninnikova, Yu. V., 2001j:41003**
**Shumeiko, A. A.** On lower bounds for approximation of functions by local splines with nonfixed nodes. (Russian. English and Ukrainian summaries) **2001b:41009**
**Skorupka, Mariola** *see* **Gurdek, M. et al., 2001b:41027**
**Sloan, Ian H.** *see* **Grigorieff, R. D. et al., 2001m:41004**
**Song, Zhan Jie** *see* **Guo, Shun Sheng et al., 2001h:41036**
**Stahl, Herbert** Strong asymptotics for orthonormal polynomials with varying weights. (English summary) **2001d:42017**
**Strang, Gilbert** (*with* Zhou, Ding Xuan) The limits of refinable functions. (English summary) **2001m:42062**
**Thamer, Kareem J.** *see* **Agrawal, Purshottam Narain, 2001g:41040**
**Valle, Ana M.** *see* **de la Cal, Jesús, 2001k:41022**
**Verhovitš, Julia** *see* **Kivinukk, Andi, 2001m:42011**
**Wasilkowski, Grzegorz W.** *see* **Han, Lei, 2001f:65018**
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**Xiao, Wei** (*with* Zhou, Song Ping; Zhu, Lai Yi) $L^p$-approximation for the Shepard operators. (Chinese. English and Chinese summaries) **2001h:41037**
**Xie, Lin Sen** Pointwise direct estimate for combinations of some exponential-type operators. (English summary) **2001i:41026**
**Xu, Gui Qiao** (*with* Liu, Yong Ping) The rate of weighted $L^2$-convergence of a kind of quasi-Grünwald interpolation operators. (Chinese. English and Chinese summaries)
**Yu, Xiang Ming** *see* **Hu, Yingkang et al., 2001c:41011**
**Yuan, Xue Gang** Approximation order for revised Lagrange interpolation polynomials. (Chinese. English and Chinese summaries)
**Zeng, Qingye** Pointwise estimate for the rate of convergence of Fourier-Laplace series. (English and Chinese summaries)
**Zeng, Xiao Ming[2]** (*with* Zhao, Jun-Ning) Pointwise approximation by Meyer-König and Zeller operators. (English summary) **2001f:41031**
— Rates of approximation of bounded variation functions by two generalized Meyer-König and Zeller type operators. (English summary) **2001g:41038**
— (*with* Cheng, Fu-hua) On the rates of approximation of Bernstein type operators. (English summary) **2001m:41030**
**Zhao, Jun-Ning** *see* **Zeng, Xiao Ming[2], 2001f:41031**
**Zhou, Ding Xuan** *see* **Strang, Gilbert, 2001m:42062**
**Zhou, Song Ping** *see* **Xiao, Wei et al., 2001h:41037**
**Zhu, Lai Yi** *see* **Xiao, Wei et al., 2001h:41037**

## 41A27 Inverse theorems

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**Kulikova, T. Yu.** Approximation of functions by a hyperbolic angle in the $L_2$ metric with arbitrary weight. (Russian. English and Russian summaries) **2001c:41006**

## 41A28 Simultaneous approximation

**Asiry, Mansour** $A(\infty)$-simultaneous rational approximation. (English summary) **2001i:41018**
**Guo, Shun Sheng** (*with* Liu, Xi Wu) On the simultaneous approximation of functions and their derivatives by the Bernstein-Durrmeyer operators. (Chinese. English and Chinese summaries)
**Kacsó, Daniela P.** On the degree of simultaneous approximation. (*see* **2001i:41001**)
**Kilgore, Theodore** On the simultaneous approximation of functions and their derivatives. (English summary) **2001k:41018**
**Lee, Mun Bae** (*with* Park, Sung Ho[1]; Rhee, Hyang Joo) Continuity of one-sided best simultaneous approximations. (English summary) **2001h:41026**
**Li, Jin Shan** The Papini characteristic of best simultaneous approximation. (Chinese. English and Chinese summaries) **2001h:41027**
— (*with* Yang, Hong Qiang) Uniqueness of simultaneous approximation for set-valued mappings. (Chinese. English and Chinese summaries)
**Li, Song** *see* **Song, Ru Ying, 2001m:41015**
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**Narang, T. D.** Simultaneous approximation and Chebyshev centres in metric spaces. (English summary) **2001h:41028**
**Park, Sung Ho[1]** *see* **Lee, Mun Bae et al., 2001h:41026**
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**Song, Ru Ying** (*with* Li, Song) A weighted simultaneous approximation equivalence theorem for Bernstein-Durrmeyer operators. (Chinese. Chinese summary) **2001m:41015**
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## 41A29 Approximation with constraints

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## 41A36 Approximation by positive operators

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— (*with* Ivan, Mircea) Best constant for a Bleimann-Butzer-Hahn moment estimation. (English summary) **2001i:41027**
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**Bogalska, Kinga** The Voronovskaya type theorem for the Baskakov-Kantorovich operators. (English summary) **2001a:41030**
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**Bărbosu, Dan** Some generalized bivariate Bernstein operators. (English summary) **2001i:41022**
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## 41A40 Saturation

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## 41A44 Best constants

**Baĭsalova, M. Zh.** The exact constant in the direct theorem of approximation theory. (Russian. English, Russian and Kazakh summaries) **2001i:41030**
**Ganzburg, Michael I.** Limit theorems and best constants in approximation theory. (English summary) **2001f:41032**
**Lupaş, Alexandru** Formulae for some classical constants. (English summary) (*see* **2001i:41001**)
**Natanson, G. I.** On a sharp constant in the theory of Bernstein polynomials. (English summary) **2001h:41039**
**Plotnikov, M. S.** On the best constant in triangle inequality for algebraic polynomials in the space $H_0$. (English summary) **2001g:41041**

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**Berdysheva, E. E.** Several related extremal problems for multivariate entire functions of exponential type. (English summary) **2001e:41016**
**de la Cal, Jesús** (*with* Valle, Ana M.) Best constants for tensor products of Bernstein, Szász and Baskakov operators. (English summary) **2001j:41029**
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**Howard, Ralph** *see* **Dilworth, Stephen J. et al., 2001c:26015**
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**Liu, Yong Ping** $L_2$-optimal recovery on the Riesz potential spaces. (English and Chinese summaries) **2001h:41002**
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## 41A45 Approximation by arbitrary linear expressions

**Bhardwaj, Neeraj** *see* **Mittal, Madan Lal, 2001a:41033**
**Mittal, Madan Lal** (*with* Bhardwaj, Neeraj) Approximation of functions by linear matrix operators. (English summary) **2001a:41033**

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**Sprengel, Frauke** A class of periodic function spaces and interpolation on sparse grids. (English summary) **2001e:41011**
**Szabados, József** *see* **Gal, Sorin G., 2001e:41009**

## 41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

**Derrets, E. V.** Lower bounds for the widths of classes of functions defined by an integral modulus of continuity. (Russian. English and Ukrainian summaries) **2001h:41040**
**DeVore, Ronald A.** Nonlinear approximation. (English summary) **2001a:41034**
**Ding, Hongming** (*with* Gross, Kenneth I.; Richards, Donald St. P.) The $N$-widths of spaces of holomorphic functions on bounded symmetric domains of tube type. (English summary) **2001c:41039**
**Dinh Dung** On best continuous methods in $n$-term approximation. **2001j:41033**
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**Esmaganbetov, M. G.** On the widths in $L_2$ of classes of differentiable functions. (Russian. English, Russian and Kazakh summaries) **2001g:41042**
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**Gross, Kenneth I.** *see* **Ding, Hongming et al., 2001c:41039**
**Jiang, Yan Jie** (*with* Liu, Yong Ping) Average $B$-width and infinite dimensional $G$-width of some smooth function classes on the line. (English summary) **2001e:41035**
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**Malorov, V. E.** (*with* Meir, Ron) On the near optimality of the stochastic approximation of smooth functions by neural networks. (English summary) **2001e:41036**
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## 41A50 Best approximation, Chebyshev systems

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**Bamig-Bola, O. M.** *see* **Ibiejugba, Matthew A. et al., 2001e:41038**
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— (*with* Li, Wu[3]) Exact order of Hoffman's error bounds for elliptic quadratic inequalities derived from vector-valued Chebyshev approximation. (English summary) **2001h:41041**
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**Borodin, P. A.** Chebyshev subspaces in the Hardy space $H^1$. (Russian. English and Russian summaries) **2001d:41026**
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**Yakubovich, D. V.** A note on hyponormal operators associated with quadrature domains. (English summary) **2001m:47041**

## 41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

**Guyker, James** Legendre expansions of power series. (English summary) **2001a:41046**
**Israfilov, D. M.** The approximation properties of generalized Faber series in weighted Bergman spaces on quasidisk. (English summary) **2001k:41031**
**Mori, Masatake** Analytic continuation and acceleration of convergence of series. (Japanese) (*see* **2001h:00019**)
**Shapovalov, A. I.** Conjugate interpolation problems in spaces of entire functions. (Russian. Russian summary) **2001f:41037**
**Sugihara, Masaaki** Justification of a formal derivation of the Euler-Maclaurin summation formula. (*see* **2001h:00019**)

### Items with secondary classifications in 41A58

**Boumenir, Amin** The sampling method for Sturm-Liouville problems with the eigenvalue parameter in the boundary condition. (English summary) **2001c:34175**
**Casazza, Peter G.** (*with* Christensen, Ole) Weyl-Heisenberg frames for subspaces of $L^2(\mathbf{R})$. (English summary) **2001h:42046**
**Christensen, Ole** *see* **Casazza, Peter G., 2001h:42046**
**Jia, Rong Qing** (*with* Jiang, Qingtang; Shen, Zuowei) Distributional solutions of nonhomogeneous discrete and continuous refinement equations. (English summary) **2001k:42044**
**Jiang, Qingtang** *see* **Jia, Rong Qing et al., 2001k:42044**
**Krishnan, V. K.** An expansion for the gamma function. (English summary) **2001c:33003**
**Shen, Zuowei** *see* **Jia, Rong Qing et al., 2001k:42044**
**Xu, Yuan[1]** A note on summability of multiple Laguerre expansions. (English summary) **2001h:42039**

## 41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

**Belov, M. A.** Application of partial differential equations for obtaining uniform asymptotic integral expansions. (English and Latvian summaries)
**Brezinski, Claude** A survey of iterative extrapolation by the $E$-algorithm.
**Cirulis, Teodors** Asymptotic expansion for the norm of Chebyshev projecting operators and their approximation error. (English and Latvian summaries)
**Costabile, Francesco** (*with* Gualtieri, Maria Italia; Serra Capizzano, Stefano) Asymptotic expansions and extrapolation for positive linear operators. (English and Italian summaries) (*see* **2001i:65003**)
**Drazin, Philip G.** *see* **Tourigny, Yves, 2001j:41041**
**Estrada, Ricardo** *see* **Ulate, Carlos Ml., 2001e:41041**
**Gualtieri, Maria Italia** *see* **Costabile, Francesco et al., (2001i:65003)**
**Impens, C.** (*with* Vernaeve, H.) Asymptotics of differentiated Bernstein polynomials. (English summary) **2001g:41047**
**Kalantari, Bahman** Generalization of Taylor's theorem and Newton's method via a new family of determinantal interpolation formulas and its applications. (English summary) **2001m:41035**
**Overholt, K. J.** The P-algorithms for extrapolation. (English summary)
**Serra Capizzano, Stefano** *see* **Costabile, Francesco et al., (2001i:65003)**
**Sokolov, A. V.** Uniform asymptotic expansions of certain integrals with two branch points. I. (English summary)
**Takeuchi, Yu** Asymptotic behavior of some polynomial sequences generated by second-order linear recurrence formulas. (Spanish. English and Spanish summaries) **2001g:41048**
**Tourigny, Yves** (*with* Drazin, Philip G.) The asymptotic behaviour of algebraic approximants. (English summary) **2001j:41041**
**Ulate, Carlos Ml.** (*with* Estrada, Ricardo) A distributional summation formula of Euler-Maclaurin type in two variables. (Spanish. English and Spanish summaries) **2001e:41041**
**Vernaeve, H.** *see* **Impens, C., 2001g:41047**
**Wu, Bo Ying** The expansion of the function with two unknowns on the reproducing kernel space. (English summary) **2001k:41032**

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**Abel, Ulrich** Asymptotic approximation by Bernstein-Durrmeyer operators and their derivatives. (English summary) **2001j:41028**
**Al'beverio, S.** (*with* Röckle, Haio; Steblovskaya, V. R.) Asymptotic expansions for Ornstein-Uhlenbeck semigroups perturbed by potentials over Banach spaces. (English summary) **2001a:60064**
**Álvarez, Gabriel** (*with* Casares, Carmen) Exponentially small corrections in the asymptotic expansion of the eigenvalues of the cubic anharmonic oscillator. (English summary) **2001i:81081**
**Amar, Micol** A note on boundary layer effects in periodic homogenization with Dirichlet boundary conditions. (English summary) **2001d:35020**
**Annaby, Mahmoud H.** (*with* Freiling, Gerhard) Sampling expansions associated with Kamke problems. (English summary) **2001b:34024**
**Badalyan, G. V.** ★ К вопросам асимптотических разложений как аппарата представления функций и условиям правомерности их применения. (Russian. Russian summary) [On questions of asymptotic expansions as a technique for representing functions and on conditions for the correctness of their application] **2001h:30033**
**Beckermann, Bernhard** On a conjecture of E. A. Rakhmanov. (English summary) **2001f:33009**
**Belov, M. A.** (*with* Smotrov, Ya. A.) Application of bisingular problems for obtaining uniform asymptotic integral expansions. (English and Latvian summaries) **2001f:65113**
**Böröczky, Károly, Jr.** The error of polytopal approximation with respect to the symmetric difference metric and the $L_p$ metric. (English summary) **2001c:65023**
**Braess, Dietrich** Note on the approximation of powers of the distance in two-dimensional domains. (English summary) **2001h:41023**
**Casares, Carmen** *see* **Álvarez, Gabriel, 2001i:81081**
**Chadwick, Richard S.** *see* **Manoussaki, Daphne, 2001k:92004**
**Chapman, S. Jonathan** (*with* Lawry, J. M. H.; Ockendon, J. R.) Ray theory for high-Péclet-number convection-diffusion. (English summary) **2001a:76121**
**Chelluri, R.** (*with* Richmond, L. Bruce; Temme, Nico M.) Asymptotic estimates for generalized Stirling numbers. (English summary) **2001c:11026**
**Corcino, C. B.** (*with* Hsu, Leetsch Charles; Tan, Evelyn L.) Asymptotic approximations of $r$-Stirling numbers. (English summary) **2001d:11023**
**Deift, Percy** (*with* Kriecherbauer, T.; McLaughlin, K. T.-R.; Venakides, Stephanos; Zhou, Xin) Uniform asymptotics for polynomials orthogonal with respect to varying exponential weights and applications to universality questions in random matrix theory. (English summary) **2001g:42050**
**Doha, E. H.** The coefficients of differentiated expansions of double and triple ultraspherical polynomials. (English summary) **2001h:42042**
**Drozhzhinov, Yu. N.** (*with* Zav'yalov, B. I.) Wiener-type Tauberian theorems for generalized functions on the half-axis. (Russian. Russian summary) **2001h:46065**
**Eschmeier, Jörg** (*with* Patton, Linda; Putinar, Mihai) Carathéodory-Fejér interpolation on polydisks. **2001j:47017**
**Everitt, W. N.** (*with* Nasri-Roudsari, G.) Sturm-Liouville problems with coupled boundary conditions and Lagrange interpolation series. (English summary) **2001g:34033**
**Forbes, Terry** *see* **Priest, Eric R., 2001h:76114**
**Freiling, Gerhard** *see* **Annaby, Mahmoud H., 2001b:34024**
**Fruchard, Augustin** (*with* Zhang, Changgui) Remarques sur les développements asymptotiques. (English and French summaries) [Remarks about asymptotic expansions] **2001a:30050**
**Fu, Kai Xin** *see* **Li, Yi Quan, (2001d:00051)**
**Haidar, Nassar H. S.** WKB theory for sampled unfolding. (English summary) **2001b:45033**
**Hsu, Leetsch Charles** *see* **Corcino, C. B. et al., 2001d:11023**
**Igashov, Sergei Yu.** Asymptotic approximation and weight estimate for the Laguerre

polynomials. (English summary) **2001b:33016**
**Jones, D. S.** Singularities of Fourier transforms: a tribute to M. J. Lighthill. (English summary) **2001i:46069**
**Kalachev, Leonid V.** Asymptotic methods: application to reduction of models. (English summary) **2001e:91132**
**Kaminski, D.** (*with* Paris, R. B.) Asymptotics of a class of multidimensional Laplace-type integrals. I. Double integrals. (English summary)
— (*with* Paris, R. B.) Asymptotics of a class of multidimensional Laplace-type integrals. II. Treble integrals. (English summary)
**Kateb, Djalil** (*with* Seghier, Abdellatif) Expansion of the inverse of positive-definite Toeplitz operators over polytopes. (English summary) **2001b:47045**
**Keşan, Cenk** *see* **Sezer, Mehmet, 2001i:65078**
**Kogan, Aleksandr Markovich** On the best approximation of the classes $W^r H^\omega$ by algebraic polynomials in the space $L_1$. (Russian. English and Ukrainian summaries) **2001c:41005**
**Kriecherbauer, T.** *see* **Deift, Percy et al., 2001g:42050**
**Kudryavtsev, L. D.** The space of functions that asymptotically approach polynomials. (Russian)
**Lawry, J. M. H.** *see* **Chapman, S. Jonathan et al., 2001a:76121**
**Lewicki, Grzegorz** On the unique minimality of the Fourier-type extensions in $L_1$-space. **2001h:42017**
**Li, Xiu Chun** (*with* Wong, Roderick) A uniform asymptotic expansion for Krawtchouk polynomials. (English summary) **2001i:33017**
— (*with* Wong, Roderick) On the asymptotics of the Meixner-Pollaczek polynomials and their zeros. (English summary) **2001m:33012**
**Li, Yi Quan** (*with* Fu, Kai Xin) An asymptotic expansion for the error of even cardinal spline-on-spline interpolation. (Chinese. English and Chinese summaries) (*see* **2001d:00051**)
**Liakhovetski, G. V.** (*with* Paris, R. B.) Asymptotic expansions of Laplace-type integrals. III. (English summary)
— *see also* **Paris, R. B., 2001b:30053**
**Lopez, S.** An effective parametrization for asymptotic extrapolations. (English summary) **2001d:65078**
**López García, José Luis** (*with* Sesma, Javier) Asymptotic expansion of the incomplete beta function for large values of the first parameter. (English summary) **2001b:33004**
— Asymptotic expansions of the Whittaker functions for large order parameter. (English summary) **2001k:33008**
**Malyutina, T. I.** The asymptotic behavior of some integrals. (Russian. English summary)
**Manoussaki, Daphne** (*with* Chadwick, Richard S.) Effects of geometry on fluid loading in a coiled cochlea. (English summary) **2001k:92004**
**Maz'ya, Vladimir G.** (*with* Movchan, A. B.) Dynamic singular perturbation problems for multi-structures. (English summary) **2001m:74047**
**McLaughlin, K. T.-R.** *see* **Deift, Percy et al., 2001g:42050**
**Mickens, Ronald E.** An order $\epsilon^2$ perturbation procedure for second order nonlinear difference equations. (English summary) **2001e:39006**
**Movchan, A. B.** *see* **Maz'ya, Vladimir G., 2001m:74047**
**Nasri-Roudsari, G.** *see* **Everitt, W. N., 2001g:34033**
**Naylor, Derek** On an asymptotic expansion of the Kontorovich-Lebedev transform. (English summary) **2001c:44003**
**Ockendon, J. R.** *see* **Chapman, S. Jonathan et al., 2001a:76121**
**Olde Daalhuis, A. B.** On the Borel transform of the uniform asymptotic expansion of Bessel functions of large order. (English summary) **2001d:33005**
**Paris, R. B.** (*with* Liakhovetski, G. V.) Asymptotics of the multidimensional Faxén integral. (English summary) **2001b:30053**
— *see also* **Kaminski, D.** *and* **Liakhovetski, G. V.**
**Patton, Linda** *see* **Eschmeier, Jörg et al., 2001j:47017**
**Pilipović, Stevan S.** (*with* Stojanović, Mirjana) Nonlinear quasiasymptotic expansion at zero to generalized solutions. (English summary) **2001j:35183**
**Priest, Eric R.** (*with* Forbes, Terry) ★ Magnetic reconnection. (English summary) **2001h:76114**
**Putinar, Mihai** *see* **Eschmeier, Jörg et al., 2001j:47017**
**Qiu, Wei Yuan** (*with* Wong, Roderick) Uniform asymptotic expansions of a double integral: coalescence of two stationary points. (English summary) **2001k:58049**
— (*with* Wong, Roderick) Uniform asymptotic formula for orthogonal polynomials with exponential weight. (English summary) **2001f:42039**
**Richmond, L. Bruce** *see* **Chelluri, R. et al., 2001c:11026**
**Richter, W.-D.** (*with* Schumacher, Jens) Asymptotic expansions for large deviation probabilities of noncentral generalized chi-square distributions. (English summary) **2001k:60038**
**Röckle, Halo** *see* **Al'beverio, S. et al., 2001a:60064**
**Schumacher, Jens** *see* **Richter, W.-D., 2001k:60038**
**Seghier, Abdellatif** *see* **Kateb, Djalil, 2001b:47045**
**Sellier, A.** Asymptotic solution of boundary integral equations. **2001b:31006**
**Sesma, Javier** *see* **López García, José Luis, 2001b:33004**
**Sezer, Mehmet** (*with* Keşan, Cenk) Polynomial solutions of certain differential equations. (English summary) **2001i:65078**
**Sidi, Avram** The Richardson extrapolation process with a harmonic sequence of collocation points. (English summary) **2001e:65007**
**Smotrov, Yu. A.** The effectivity of the interval asymptotic expansion method for the inversion of the Fourier transformation. (English and Latvian summaries)
— *see also* **Belov, M. A., 2001f:65113**
**Steblovskaya, V. R.** *see* **Al'beverio, S. et al., 2001a:60064**
**Stojanović, Mirjana** *see* **Pilipović, Stevan S., 2001j:35183**
**Subbotin, Yu. N.** (*with* Telyakovskiĭ, S. A.) Asymptotics of Lebesgue constants of periodic interpolation splines with equally spaced nodes. (Russian. Russian summary) **2001i:41010**
**Tan, Evelyn L.** *see* **Corcino, C. B. et al., 2001d:11023**
**Telyakovskiĭ, S. A.** *see* **Subbotin, Yu. N., 2001i:41010**
**Temme, Nico M.** *see* **Chelluri, R. et al., 2001c:11026**
**Uchiyama, Kōichi** Graphical illustration of Stokes phenomenon of integrals with saddles. (English summary) **2001e:34108**
**Venakides, Stephanos** *see* **Deift, Percy et al., 2001g:42050**
**Vértesi, P.** Asymptotics of derivatives of orthogonal polynomials based on generalized Jacobi weights. Some new theorems and applications. **2001f:42041**
— Uniform asymptotics of derivatives of orthogonal polynomials based on generalized Jacobi weights. (English summary) **2001b:33017**
**Walz, Guido** Asymptotic expansions for multivariate polynomial approximation. (English summary) **2001k:65008**
**Wong, Roderick** *see* **Qiu, Wei Yuan, 2001f:42039; 2001k:58049; Li, Xiu Chun, 2001i:33017** *and* **2001m:33012**
**Xin, Jack X.** Front propagation in heterogeneous media. (English summary) **2001i:35184**
**Zav'yalov, B. I.** *see* **Drozhzhinov, Yu. N., 2001h:46065**
**Zhang, Changgui** *see* **Fruchard, Augustin, 2001a:30050**
**Zhou, Xin** *see* **Deift, Percy et al., 2001g:42050**

## 41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)

**Barthelmann, Volker** (*with* Novak, Erich; Ritter, Klaus) High dimensional polynomial interpolation on sparse grids. (English summary) **2001d:41033**
**Beška, Marek** (*with* Dziedziul, Karol) The saturation theorem for box spline orthogonal projection. (English summary) **2001k:41033**
**Beutel, Laura** *see* **Gonska, Heinz H. et al., (2001i:41001)**
**de Boor, Carl** Computational aspects of multivariate polynomial interpolation: indexing the coefficients. (English summary) **2001c:41048**
**Braess, Dietrich** (*with* Schwab, Christoph) Approximation on simplices with respect to weighted Sobolev norms. (English summary) **2001f:41038**
**Dahlen, M.** (*with* Lyche, Tom; Mørken, K.; Schneider, Robert; Seidel, H.-P.) Multiresolution analysis over triangles, based on quadratic Hermite interpolation. (English summary) **2001i:41035**
**Dryanov, Dimiter P.** (*with* Haußmann, Werner; Petrov, Petar P.) Best one-sided $L^1$-approximation of bivariate functions by sums of univariate ones. (English summary) **2001d:41034**
**Dudov, S. I.** (*with* Zlatorunskaya, I. V.) A uniform estimate for a convex compact set by a ball of arbitrary norm. (Russian. Russian summary) **2001m:41036**
**Dziedziul, Karol** *see* **Beška, Marek, 2001k:41033**
**Fang, Yi²** *see* **Tan, Jie Qing, 2001j:41042**
**Fernández-Martínez, P.** (*with* Raynaud, Y.) A Wolff theorem for interpolation methods associated to polygons. II. (English summary) **2001g:41049**
**von Golitschek, Manfred** (*with* Light, W. A.) Interpolation by polynomials and radial basis functions on spheres. (English summary) **2001i:41036**
**Gonska, Heinz H.** (*with* Kacsó, Daniela P.; Beutel, Laura) Exact and approximate interpolation of 3D-data by bivariate 3D-functions. (*see* **2001i:41001**)
**Haußmann, Werner** *see* **Dryanov, Dimiter P. et al., 2001d:41034**
**Kacsó, Daniela P.** *see* **Gonska, Heinz H. et al., (2001i:41001)**
**Kang, Shugui** (*with* Liu, Yong Ping) On the precise order of decrease of the best approximations of multivariate functions. (English and Chinese summaries) **2001m:41037**
**Kushpel', A. K.** Optimal approximation on $S^d$. (English summary) **2001f:41039**
**Li, Yue Sheng** *see* **Zhang, Shu Ling et al.**
**Light, W. A.** *see* **von Golitschek, Manfred, 2001i:41036**
**Liu, Yong Ping** *see* **Kang, Shugui, 2001m:41037**
**Lorentz, Rudolph** Multivariate Hermite interpolation by algebraic polynomials: a survey. (English summary) **2001k:41034**
**Lyche, Tom** *see* **Dahlen, M. et al., 2001i:41035**
**Maiorov, V. E.** On best approximation by ridge functions. (English summary) **2001h:41044**
— (*with* Meir, Ron; Ratsaby, Joel) On the approximation of functional classes equipped with a uniform measure using ridge functions. (English summary) **2001h:41045**
**Meir, Ron** *see* **Maiorov, V. E. et al., 2001h:41045**
**Mohebi, H.** On quasi-Chebyshev subspaces of Banach spaces. (English summary) **2001k:41035**
**Mørken, K.** *see* **Dahlen, M. et al., 2001i:41035**
**Nazipov, A. A.** On multidimensional interpolation polynomials. (Russian)
**Novak, Erich** *see* **Barthelmann, Volker et al., 2001d:41033**
**Nowakowski, Krzysztof** (*with* Taberski, Roman) Strong approximation by bivariate entire functions. **2001g:41050**
**Nürnberger, Günther** (*with* Zeilfelder, Frank) On bivariate spline spaces. (English summary) (*see* **2001f:41001**)
— (*with* Zeilfelder, Frank) Developments in bivariate spline interpolation. (English summary) **2001e:41042**
**Petrov, Petar P.** *see* **Dryanov, Dimiter P. et al., 2001d:41034**
**Ratsaby, Joel** *see* **Maiorov, V. E. et al., 2001h:41045**
**Raynaud, Y.** *see* **Fernández-Martínez, P., 2001g:41049**
**Ritter, Klaus** *see* **Barthelmann, Volker et al., 2001d:41033**
**Rzhonsnitskaya, Yu. B.** Application of the method of I. P. Natanson and I. Yu. Kharrik to Bernstein polynomials on simplexes. (Russian. Russian summary)
**Schneider, Robert** *see* **Dahlen, M. et al., 2001i:41035**
**Schwab, Christoph** *see* **Braess, Dietrich, 2001f:41038**
**Seidel, H.-P.** *see* **Dahlen, M. et al., 2001i:41035**
**Still, Georg J.** Solving vector-valued approximation problems by semi-infinite optimization: numerical and genericity aspects. (English summary) (*see* **2001c:90006**)
**Taberski, Roman** *see* **Nowakowski, Krzysztof, 2001g:41050**
**Tan, Jie Qing** (*with* Fang, Yi²) General frames for bivariate interpolation. (English and Chinese summaries) **2001j:41042**
**Walz, Guido** Optimal bivariate crosscut segmentations. (English summary) **2001c:41049**
**Wen, Cheng Lin** *see* **Zhang, Shu Ling et al.**
**Xuan, Pei-Cai** The equivalence between weighted $K$-functionals and moduli of smoothness on a simplex and their applications. (English summary) **2001j:41043**
**Zeilfelder, Frank** *see* **Nürnberger, Günther, 2001e:41042** *and* **(2001f:41001)**
**Zhang, Shu Ling** (*with* Wen, Cheng Lin; Li, Yue Sheng) Study of system in multiscale random signal processing using $B$-spline function. (Chinese. English and Chinese summaries)

**Zlatorunskaya, I. V.** *see* **Dudov, S. I., 2001m:41036**

## Items with secondary classifications in 41A63

**Acu, Dumitru** *see* **Cismaşiu, Cristina S., (2001i:41001)**
**Ahn, Y. J.** *see* **Kim, Hyoung Joong, 2001f:65021**
**Akopyan, A. A.** On the regularity of multivariate Hermite interpolation. (English summary) **2001h:41004**
**Anastassiou, George A.** Higher order multivariate wavelet type approximation. (English summary) **2001e:42041**
— (*with* Gal, Sorin G.) Global smoothness preservation by multivariate singular integrals. (English summary) **2001g:41033**
**Bebendorf, Mario** Approximation of boundary element matrices. (English summary) **2001j:65022**
**Benbourhim, M. N.** (*with* González-Casanova, P.) Local interpolation of non-smooth functions. (English summary) (*see* **2001c:90006**)
**Berdysheva, E. E.** Several related extremal problems for multivariate entire functions of exponential type. (English summary) **2001e:41016**
**Boksha, A. N.** Approximation of functions of two variables by rational operators in the uniform metric. (Russian. English and Russian summaries) **2001k:41013**
**de Boor, Carl** (*with* Dyn, Nira; Ron, Amos) Polynomial interpolation to data on flats in $\mathbb{R}^d$. (English summary) **2001k:41001**
**Boyanov, Borislav D.** (*with* Dryanov, Dimiter P.; Haußmann, Werner; Nikolov, Geno P.) Best one-sided $L^1$-approximation by blending functions. (English summary) **2001j:41037**
**Bozzini, M.** (*with* Rossini, Milvia) Approximating surfaces with discontinuities. (English summary) **2001d:65025**
**Carnicer, J. M.** (*with* Gasca, Mariano) Bivariate Hermite-Birkhoff polynomial interpolation with asymptotic conditions. (English summary) **2001e:41003**
**Cismaşiu, Cristina S.** (*with* Acu, Dumitru) An integral representation of the remainder in an approximation formula by a bivariate operator of Cheney-Sharma. (English summary) (*see* **2001i:41001**)
**Conti, Costanza** (*with* Jetter, Kurt) A new subdivision method for bivariate splines on the four-directional mesh. (English summary) **2001g:41011**
**Curbera, Francisco** Delayed curse of dimension for Gaussian integration. (English summary) **2001e:65242**
**Davydov, Oleg** (*with* Sommer, Manfred; Strauss, Hans) Interpolation by bivariate linear splines. (English summary) **2001f:41010**
— (*with* Nürnberger, Günther) Interpolation by $C^1$ splines of degree $q \geq 4$ on triangulations. (English summary) **2001k:65026**
**Dryanov, Dimiter P.** *see* **Boyanov, Borislav D. et al., 2001j:41037**
**Duan, Ji Wei** (*with* Lee, Peter Kai-kwong) Construction of boundary B-spline functions. (English summary)
**Dyn, Nira** *see* **de Boor, Carl et al., 2001k:41001**
**Gal, Sorin G.** *see* **Anastassiou, George A., 2001g:41033**
**Ganzburg, Michael I.** Limit theorems and best constants in approximation theory. (English summary) **2001f:41032**
**Gasca, Mariano** (*with* Sauer, Thomas) Polynomial interpolation in several variables. (English summary) **2001d:41010**
— *see also* **Multivariate polynomial interpolation, 2001a:41003** *and* **Carnicer, J. M., 2001e:41003**
**González-Casanova, P.** *see* **Benbourhim, M. N., (2001c:90006)**
**Goodman, Tim N. T.** (*with* Micchelli, Charles A.; Rodriguez, Giuseppe; Seatzu, Sebastiano) On the Cholesky factorization of the Gram matrix of multivariate functions. (English summary) **2001k:15020**
**Gorbachev, D. V.** (*with* Piskorzh, M. S.) A sharp Jackson inequality in $L_2$ on a hyperboloid. (Russian. English and Russian summaries) **2001e:41018**
**Gurdek, M.** (*with* Kurczyńska, J.; Walczak, Zbigniew) Approximation theorems for some operators in weighted spaces of functions of two variables. (English summary) **2001c:41035**
**Gutzmer, Tim** (*with* Melenk, Jens Markus) Approximation orders for natural splines in arbitrary dimensions. (English summary) **2001j:41007**
**Hartmann, Erich** Numerical parameterization of curves and surfaces. (English summary) **2001b:65028**
**Haußmann, Werner** *see* **Advances in multivariate approximation, 2001f:41001** *and* **Boyanov, Borislav D. et al., 2001j:41037**
**Hickernell, Fred J.** (*with* Woźniakowski, Henryk) Integration and approximation in arbitrary dimensions. (English summary) **2001d:65017**
**Hiyoshi, Hisamoto** (*with* Sugihara, Kokichi) Voronoi-based interpolation with higher continuity. (English summary) **2001j:65019**
**Hong, Dong** On scattered data representations using bivariate splines. (English summary) **2001g:41014**
**Jetter, Kurt** *see* **Advances in multivariate approximation, 2001f:41001** *and* **Conti, Costanza, 2001g:41011**
**Khan, Huzoor H.** (*with* Ram, Govind) On the degree of approximation by Gauss Weierstrass integrals. (English summary) **2001b:41021**
**Kim, Hyoung Joong** (*with* Ahn, Y. J.) Good degree reduction of Bézier curves using Jacobi polynomials. (English summary) **2001f:65021**
**Korneĭchuk, Nikolaĭ Pavlovich** On the best approximation of functions of $n$ variables. (Russian. English and Ukrainian summaries) **2001b:41037**
— Best approximation of periodic functions of two variables by polynomial splines. (Russian. English and Ukrainian summaries) **2001k:41007**
**Kouibia, A.** (*with* Pasadas, M.) Approximation by discrete variational splines. (English summary) **2001b:65020**
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## 41A80 Remainders in approximation formulas

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**Reif, Ulrich** Best bounds on the approximation of polynomials and splines by their control structure. (English summary) **2001b:41042**
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**Acu, Dumitru** (*with* Boncuţ, M.; Cismaşiu, Cristina S.) Evaluation of the remainder in an approximation formula of D. D. Stancu. (English summary) **2001b:41029**
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**Cismaşiu, Cristina S.** *see* **Acu, Dumitru et al., 2001b:41029**
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**Waldron, Shayne** Minimally supported error representations and approximation by the constants. (English summary) **2001f:41007**

# 42–XX Fourier analysis

## 42–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Bachman, George** (*with* Narici, Lawrence; Beckenstein, Edward) ★ Fourier and wavelet analysis. (English summary) **2001a:42001**
**Beckenstein, Edward** *see* **Bachman, George et al., 2001a:42001**
**(Cruz-Uribe, David)** *see* **Duoandikoetxea, Javier, 2001k:42001**
**Duoandikoetxea, Javier** ★ Fourier analysis. (English summary) **2001k:42001**
**Kosheleva, G. G.** *see* **Yudin, Vladimir Aleksandrovich**
**Narici, Lawrence** *see* **Bachman, George et al., 2001a:42001**
**Yudin, Vladimir Aleksandrovich** (*with* Kosheleva, G. G.) ★ Ряды Фурье и их применение. (Russian. Russian summary) [Fourier series and their application]

Items with secondary classifications in 42–01

**Fay, Temple H.** (*with* Kloppers, P. Hendrik) The Gibbs' phenomenon. (English summary) **2001k:01035**
**Kloppers, P. Hendrik** *see* **Fay, Temple H., 2001k:01035**
**Lieb, Elliott H.** (*with* Loss, Michael) ★ Analysis. **2001i:00001**
**Loss, Michael** *see* **Lieb, Elliott H., 2001i:00001**
**Rahman, Matiur** ★ Mathematical methods with applications. (English summary) **2001e:00001**

## 42–02 Research exposition (monographs, survey articles)

**Osilenker, Boris P.** ★ Fourier series in orthogonal polynomials. **2001h:42001**

Items with secondary classifications in 42–02

**Fefferman, Robert A.** Multiparameter Calderón-Zygmund theory. **2001c:42011**

## 42–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 42–03

**(Berdyshev, V. I.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**(Calderón, Alberto Pedro)** *see* **Stein, Elias M., 2001e:42021**
**(Chernykh, N. I.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**(Kolchin, V. F.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**Koshiba, Yōichi** Riemann's paper on trigonometric series. (Japanese) (*see* **2001c:01002**)
**Maligranda, Lech** (*with* Wnuk, Witold) Władysław Orlicz (1903–1990). (Polish) **2001k:01059**
**(Orlicz, Władysław)** *see* **Maligranda, Lech, 2001k:01059**
**(Stechkin, B. S.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
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**Stein, Elias M.** Calderón and Zygmund's theory of singular integrals. **2001e:42021**
**(Subbotin, Yu. N.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**(Telyakovskiĭ, S. A.)** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**Wnuk, Witold** *see* **Maligranda, Lech, 2001k:01059**
**(Zygmund, Antoni)** *see* **Stein, Elias M., 2001e:42021**

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**Biography:**
**Orlicz, Władysław** *see* **Maligranda, Lech, 2001k:01059**
**Stechkin, Sergeĭ Borisovich** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
**Collected Works:**
**Stechkin, Sergeĭ Borisovich** *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**

## 42–06 Proceedings, conferences, collections, etc.

**(Debnath, Lokenath)** *see* **Wavelet transforms and time-frequency signal analysis, 2001j:42001**
**(He, Tian-Xiao)** *see* **Wavelet analysis and multiresolution methods, 2001c:42001**

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**Session:**
**Wavelet Analysis and Multiresolution Methods** ★ Wavelet analysis and multiresolution methods. **2001c:42001**
**Urbana-Champaign, IL** ★ Wavelet analysis and multiresolution methods. **2001c:42001**
**Wavelet analysis and multiresolution methods** ★ Wavelet analysis and multiresolution methods. **2001c:42001**
**Wavelet transforms and time-frequency signal analysis** ★ Wavelet transforms and time-frequency signal analysis. **2001j:42001**

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**(Anastassiou, George A.)** *see* **Approximation in mathematics, 2001b:41001**
**(Dunkl, Charles F.)** *see* **Special functions, 2001i:33001**
**(Ismail, Mourad El-Houssieny)** *see* **Special functions, 2001i:33001**
**(Nikol'skiĭ, S. M.)** *see* **Metric theory of functions and related problems in analysis, 2001d:00060**
**(Priezzhev, V. B.)** *see* **Self-similar systems, 2001j:00031**
**(Spiridonov, Vyacheslav)** *see* **Self-similar systems, 2001j:00031**
**(Ul'yanov, Petr Lavrent'evich)** *see* **Metric theory of functions and related problems in analysis, 2001d:00060**
**(Wong, Roderick)** *see* **Special functions, 2001i:33001**

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**Meeting:**
**American Mathematical Society** ★ Approximation in mathematics. **2001b:41001**
**Memphis, TN** ★ Approximation in mathematics. **2001b:41001**
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**Self-similar systems** ★ Self-similar systems. **2001j:00031**
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**Approximation in Mathematics** ★ Approximation in mathematics. **2001b:41001**
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**Special Functions—Asymptotics, Harmonic Analysis and Mathematical Physics** ★ Special functions. **2001i:33001**

# 42Axx Fourier analysis in one variable

## 42A05 Trigonometric polynomials, inequalities, extremal problems

**Anderson, Bruce B.** (*with* Ash, J. Marshall; Jones, Roger L.; Rider, Daniel G.; Saffari, Bahman) $L^p$ norm local estimates for exponential sums. (English and French summaries) **2001b:42001**
**Ash, J. Marshall** *see* **Anderson, Bruce B. et al., 2001b:42001**
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**Gotō, Kazuo** Some results on Littlewood's problem and Orlicz's problem. (English summary) **2001m:42003**
**Jones, Roger L.** *see* **Anderson, Bruce B. et al., 2001b:42001**
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**Koumandos, Stamatis** A positive functional bound for certain sine sums. (English and Russian summaries) **2001j:42003**
**Mastroianni, Giuseppe** (*with* Russo, M. G.) Weighted Marcinkiewicz inequalities and boundedness of the Lagrange operator. (English summary) **2001f:42001**
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**Nazarov, Fedor L.** Complete version of Turan's lemma for trigonometric polynomials on the unit circumference. (English summary) **2001i:42001**
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**Rider, Daniel G.** *see* **Anderson, Bruce B. et al., 2001b:42001**
**Russo, M. G.** *see* **Mastroianni, Giuseppe, 2001f:42001**
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**Vinogradov, O. L.** On some inequalities for the integrated module of continuity. (English summary) [On some inequalities for the integrated modulus of continuity]

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**Borwein, Peter B.** (*with* Lockhart, Richard) The expected $L_p$ norm of random polynomials. (English summary) **2001m:60124**
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**Goh, Say Song** (*with* Yeo, Chee Heng) Uncertainty products of local periodic wavelets. (English summary) **2001h:42051**
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## 42A10 Trigonometric approximation

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**Brenner, Susanne C.** (*with* Sung, Li-Yeng) Discrete Sobolev and Poincaré inequalities via Fourier series. (English summary) **2001g:42003**
**Burinska, Z.** (*with* Runovskiĭ, K. V.; Schmeisser, Hans-Jürgen) On the method of approximation by families of linear polynomial operators. (English summary) **2001h:42003**
**Bushev, D. N.** Approximation of classes of periodic functions with small smoothness. (Ukrainian. English and Ukrainian summaries) **2001a:42002**
**Bustamante González, Jorge** (*with* Jiménez Pozo, Miguel A.) The degree of best approximation in the Lipschitz norm by trigonometric polynomials. (English summary) **2001h:42004**
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**Dai, Ning** *see* **Lu, Jian Fang**
**Efromovich, Sam** (*with* Ganzburg, Michael I.) Best Fourier approximation and application in efficient blurred signal reconstruction. (English summary) **2001c:42002**
**Falaleev, L. P.** Approximation of conjugate functions by generalized Abel-Poisson operators. (Russian. Russian summary) **2001e:42004**
**Fedorenko, An. S.** Best $m$-term trigonometric and orthogonal trigonometric approximations of functions in the classes $L^{\overline{\psi}}_{\beta,p}$. (Ukrainian. English summary)
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— Approximation of the classes $C^{\overline{\psi}}_{\infty}$ by Zygmund sums. (Russian. English and Ukrainian summaries)
**Ganzburg, Michael I.** *see* **Efromovich, Sam, 2001c:42002**
**Gelb, Anne** (*with* Tadmor, Eitan) Detection of edges in spectral data. II. Nonlinear enhancement. (English summary) **2001i:42003**
**Girgensohn, Roland** A unified view of classical summation kernels. (English summary) **2001i:42004**
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**Jiménez Pozo, Miguel A.** *see* **Bustamante González, Jorge, 2001h:42004**
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**Makharadze, D.** Some local approximation properties of Cezàro means of trigonometric Fourier series. (English summary) [Some local approximation properties of Cesàro means of trigonometric Fourier series]
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— The rate of convergence of a group of deviations on sets of $\overline{\psi}$-integrals. (Russian. English and Ukrainian summaries) **2001a:42005**
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**Celant, Giorgio** Exact solutions to the problem of predicting a vast class of weakly stationary, linearly singular, discrete-parameter stochastic processes. (English summary) **2001i:60072**
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**Esmaganbetov, M. G.** On diameters in $L_2$ of classes of differentiable functions. (English and Georgian summaries) **2001f:41033**
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**Ligun, A. A.** (*with* Shumeĭko, A. A.) On the description of convex curves. (Russian. English and Russian summaries) **2001c:65025**
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**Mohapatra, Ram Narayan** *see* **Govil, N. K., 2001h:41025**
**Móricz, Ferenc** Approximation by rectangular partial sums of double conjugate Fourier series. (English summary) **2001g:42019**
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**Serdyuk, A. S.** *see* **Stepanets, A. I.**
**Shang, Zeng Ke** (*with* Zhang, San-ao; Sheng, Bao Huai) The characterization of Orlicz-Besov spaces with best $n$-th degree trigonometric polynomial approximation. (English and Chinese summaries) **2001i:41031**
**Shen, Xiaoping** *see* **Walter, Gilbert G., 2001b:42058**
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**Sun, Yongsheng** Optimal subspaces for a periodic convolution class with a $B$-kernel. (English summary) **2001h:41019**
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**Zhuk, V. V.** (*with* Vinogradov, O. L.) Generalization of the Parseval equality in multidimensional case. (English summary)

## 42A15 Trigonometric interpolation

**Boche, Holger** Ein Problem von A. Papoulis bezüglich der bandbegrenzten Interpolation. [A problem of A. Papoulis concerning band-limited interpolation]
**Du, Jin Yuan** (*with* Liu, Hua) On convergence of trigonometric interpolation for periodic analytic functions. (English summary) (*see* **2001b:00021**)
**Fang, Gen Sun** *see* **Wang, Jian Jun, 2001a:42006**
**Jiang, Qingtang** Parameterization of $m$-channel orthogonal multifilter banks. (English summary) **2001h:42006**
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— The sampling method for Sturm-Liouville problems with the eigenvalue parameter in the boundary condition. (English summary) **2001c:34175**
**Burinska, Z.** (*with* Runovskiĭ, K. V.; Schmeisser, Hans-Jürgen) On the method of approximation by families of linear polynomial operators. (English summary) **2001h:42003**
**Dai, Ning** *see* **Lu, Jian Fang**
**Li, Xin[3]** Rational interpolation of functions on the unit circle. (English summary) **2001m:41011**
**Lu, Jian Fang** (*with* Dai, Ning) Algebraic-trigonometric mixed Hermite interpolation and its error estimation. (Chinese. English and Chinese summaries)
**Mastroianni, Giuseppe** (*with* Russo, M. G.) Weighted Marcinkiewicz inequalities and boundedness of the Lagrange operator. (English summary) **2001f:42001**
**Nersesyan, A. B.** A family of approximation formulas and some applications. (English summary) **2001g:41006**
**Runovskiĭ, K. V.** *see* **Burinska, Z. et al., 2001h:42003**
**Russo, M. G.** *see* **Mastroianni, Giuseppe, 2001f:42001**
**Schmeisser, Hans-Jürgen** *see* **Burinska, Z. et al., 2001h:42003**
**Sickel, Winfried** (*with* Sprengel, Frauke) Some error estimates for periodic interpolation of functions from Besov spaces. (English summary) **2001h:41042**
**Sprengel, Frauke** A class of periodic function spaces and interpolation on sparse grids. (English summary) **2001e:41011**
— *see also* **Sickel, Winfried, 2001h:41042**

## 42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

**Akhobadze, T.** On the order of Fourier coefficients of a function of generalized Wiener's class $\mathrm{BV}(P(n)\uparrow\infty)$. (English summary)
— On Fourier coefficients of functions of $BV(p(n)\uparrow\infty,\varphi)$ class. (English summary)
— On Fourier coefficients of functions of generalized Wiener class. (English summary) **2001g:42008**
**Chen, Chang-Pao** (*with* Chen, Lonkey) Asymptotic behavior of trigonometric series with $O$-regularly varying quasimonotone coefficients. II. (English summary) **2001h:42007**
**Chen, Lonkey** *see* **Chen, Chang-Pao, 2001h:42007**
**Duchoň, Miloslav** (*with* Maličký, Peter) Positive linear maps on trigonometric polynomials. (English summary) **2001g:42009**
**Falaleev, L. P.** Continuous methods for the summation of Fourier coefficients. (Russian)
**Hagstrom, Thomas** *see* **Kvernadze, George et al.**
**Jiménez Pozo, Miguel A.** A new approach to Lipschitz spaces of periodic integrable functions. (English summary) (*see* **2001d:00037**)
**Kahane, Jean-Pierre** (*with* Melas, Antonios; Nestoridis, Vassili) Sur les séries de Taylor universelles. (English and French summaries) [On universal Taylor series] **2001c:42003**
— (*with* Nestoridis, Vassili) Séries de Taylor et séries trigonométriques universelles au sens de Menchoff. (English and French summaries) [Universal Taylor series and universal trigonometric series in the sense of Menshov] **2001m:42007**
**Kozma, Gady** (*with* Olevskiĭ, A. M.) An "analytic" version of Menshov's representation theorem. (English and French summaries) **2001d:42003**
**Kvernadze, George** (*with* Hagstrom, Thomas; Shapiro, Henry) Locating discontinuities of a bounded function by the partial sums of its Fourier series. (English summary)
**Leindler, László** Power-monotone sequences and Fourier series with positive coefficients. (English summary) **2001d:42004**
— On the equivalence of classes of Fourier coefficients. (English summary) **2001b:42003**
**Maličký, Peter** *see* **Duchoň, Miloslav, 2001g:42009**
**Melas, Antonios** *see* **Kahane, Jean-Pierre et al., 2001c:42003**
**Nestoridis, Vassili** *see* **Kahane, Jean-Pierre et al., 2001c:42003** *and* **2001m:42007**
**Olevskiĭ, A. M.** *see* **Kozma, Gady, 2001d:42003**
**Pedersen, Thomas Vils** Holomorphic perturbation of Fourier coefficients. (English summary) **2001m:42008**
**Potapov, Mikhail Konstantinovich** (*with* Simonov, B. V.) On estimates for the moduli of smoothness of functions with a transformed Fourier series. (Russian. English and Russian summaries)
**Rodin, V. A.** The Hardy and Bellman transformations in spaces close to $L_\infty$ and $L_1$. (Russian. English and Russian summaries) **2001a:42007**
**Shapiro, Henry** *see* **Kvernadze, George et al.**
**Simonov, B. V.** On a theorem of P. L. Ul'yanov. (Russian. English and Russian summaries) **2001i:42005**
— *see also* **Potapov, Mikhail Konstantinovich**
**Skhirtladze, I.** (*with* Skhirtladze, N. M.) On the Zygmund's functions. (English summary)
**Skhirtladze, N. M.** *see* **Skhirtladze, I.**
**Vinogradov, O. L.** *see* **Zhuk, V. V.**
**Xiao, Jie[1]** A reverse BMO-Hardy inequality. (English summary) **2001g:42010**
**Zhou, Ji Yuan** Fourier series that converge in norm. (Chinese. English and Chinese summaries)
**Zhuk, V. V.** (*with* Vinogradov, O. L.) Generalization of the Parseval equality in multidimensional case. (English summary)

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**Ayache, Antoine** A geometrical solution of a problem on wavelets. (English summary) **2001g:42064**
**Baiocchi, Claudio** (*with* Komornik, Vilmos; Loreti, Paola) Ingham type theorems and applications to control theory. (Italian summary) **2001k:93008**
**Baishanski, Bogdan** Norms of powers and a central limit theorem for complex-valued probabilities. **2001e:42001**
**Berezhnoĭ, E. I.** Spaces of functions of generalized bounded variation. I. Embedding theorems. Estimates for Lebesgue constants. (Russian. Russian summary) **2001a:46030**
**Cai, Luchuan** *see* **Walter, Gilbert G., 2001e:42053**
**Chen, Han Lin[1]** (*with* Liang, Xue Zhang; Peng, Si Long; Xiao, Shao-liang) Real-valued periodic wavelets: construction and relation with Fourier series. (English summary) **2001a:42035**
**Chung, Jaeyoung** (*with* Chung, Soon-Yeong; Kim, Dohan; Kim, Hee Jung) Trigonometric series and almost periodic generalized functions. (English summary) **2001b:46062**
**Chung, Soon-Yeong** *see* **Chung, Jaeyoung et al., 2001b:46062**
**Dostanić, Milutin R.** Fourier expansions with respect to the Rayleigh system. (English summary) **2001b:47075**
**Fay, Temple H.** The Gibbs' phenomenon and harmonic oscillators with periodic forcing. (English summary)
**Goginava, U.** On the divergence of trigonometric Fourier series of the class $H^\omega\cap\mathrm{BV}(p(n)\uparrow\infty)$. (English and Georgian summaries) **2001e:42006**
**Kim, Dohan** *see* **Chung, Jaeyoung et al., 2001b:46062**
**Kim, Hee Jung** *see* **Chung, Jaeyoung et al., 2001b:46062**
**Komornik, Vilmos** *see* **Baiocchi, Claudio et al., 2001k:93008**
**Kucherenko, V. V.** (*with* Vasilevskiĭ, N. L.) A shift operator generated by a trigonometric system. (Russian. Russian summary) **2001c:47037**
**Liang, Xue Zhang** *see* **Chen, Han Lin[1] et al., 2001a:42035**
**Loreti, Paola** *see* **Baiocchi, Claudio et al., 2001k:93008**
**Mhaskar, H. N.** (*with* Prestin, Jürgen) On the detection of singularities of a periodic function. (English summary) **2001a:42003**
**Peng, Si Long** *see* **Chen, Han Lin[1] et al., 2001a:42035**
**Popov, A. Yu.** (*with* Telyakovskiĭ, S. A.) On estimates for partial sums of Fourier series of functions of bounded variation. (Russian) **2001e:42003**
**Prestin, Jürgen** *see* **Mhaskar, H. N., 2001a:42003**
**Srivastava, Hari M.** Some recent developments in the theory and applications of a class of finite Fourier transformations. (English summary) **2001g:33011**
**Telyakovskiĭ, S. A.** *see* **Popov, A. Yu., 2001e:42003**
**Ushijima, Teruo** Continuous and discrete Fourier coefficients of equi-distant piecewise linear continuous periodic functions—application to mathematical analysis of an FEM-CSM combined method for 2D exterior Laplace problems. (English summary) (*see* **2001f:65004**)
**Vasilevskiĭ, N. L.** *see* **Kucherenko, V. V., 2001c:47037**
**Walter, Gilbert G.** (*with* Cai, Luchuan) Periodic wavelets from scratch. (English summary) **2001e:42053**
**Xiao, Shao-liang** *see* **Chen, Han Lin[1] et al., 2001a:42035**

## 42A20 Convergence and absolute convergence of Fourier and trigonometric series

**Belov, A. S.** On conditions for the convergence (boundedness) in the mean of partial sums of a trigonometric series. (Russian. Russian summary) **2001i:42006**
**Bhatia, S. S.** (*with* Ram, Babu) On convergence of certain trigonometric sums in the $L^1$ metric space. (English summary) **2001i:42007**
**Goginava, U.** On the divergence of trigonometric Fourier series of the class $H^\omega\cap\mathrm{BV}(p(n)\uparrow\infty)$. (English and Georgian summaries) **2001e:42006**
**Konyagin, Sergei V.** On the divergence everywhere of trigonometric Fourier series. (Russian. Russian summary) **2001e:42007**
**Körner, T. W.** A theorem of Menšov on the adjustment of functions. (English summary) **2001h:42008**
**Kuznetsova, O. I.** Convergence in the mean of a class of $N$-dimensional trigonometric series. (Russian)

**Lacey, Michael T.** (*with* Thiele, Christoph) A proof of boundedness of the Carleson operator. (English summary) **2001m:42009**
**Liflyand, E.** On Bausov-Telyakovskii type results. (English summary) **2001m:42010**
**Lukashenko, T. P.** Analogues of the Kolmogorov-Seliverstov-Plessner theorem for nonorthogonal systems of functions. (Russian. Russian summary) **2001g:42011**
**Pati, T.** On the convergence and summability $(C, 1)$ of the Lebesgue-Fourier series.
**Ram, Babu** *see* **Bhatia, S. S., 2001i:42007**
**Thiele, Christoph** *see* **Lacey, Michael T., 2001m:42009**
**Tomovski, Živorad** A class of $L^1$-convergence. (English and Macedonian summaries)
— Necessary and sufficient condition for $L^1$-convergence of cosine trigonometric series with $\delta$-quasimonotone coefficients. (English summary) **2001b:42005**
— An extension of the Garrett-Stanojević class. (English summary) **2001b:42004**
— Some classes of $L^1$-convergence of Fourier series. (English and Macedonian summaries) **2001k:42003**
— Generalization theorem on convergence and integrability for sine series. (English summary) **2001f:42004**
**Xiao, Wei** (*with* Xie, Ting Fan; Zhou, Song Ping) The optimal degree of approximation by a class of trigonometric series. (Chinese. Chinese summary) **2001j:42005**
**Xie, Ting Fan** *see* **Xiao, Wei et al., 2001j:42005**
**Zhizhiashvili, L.** Uniform convergence and summability of Fourier series. (English summary)
**Zhou, Song Ping** *see* **Xiao, Wei et al., 2001j:42005**
**Zhuk, V. V.** Convergence of a trigonometric Fourier series at a point. (English summary)

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**Bachman, George** (*with* Narici, Lawrence; Beckenstein, Edward) ★ Fourier and wavelet analysis. (English summary) **2001a:42001**
**Beckenstein, Edward** *see* **Bachman, George et al., 2001a:42001**
**Boche, Holger** Verhalten der Cauchy-Transformation und der Hilbert-Transformation für auf dem Einheitskreis stetige Funktionen. (English summary) [Behavior of the Cauchy transform and the Hilbert transform for functions that are continuous on the unit circle] **2001g:30024**
**Bustamante González, Jorge** (*with* Jiménez Pozo, Miguel A.) Fourier series and convergence in Lipschitz norm. (English summary) (*see* **2001d:00037**)
**Dostanić, Milutin R.** Fourier expansions with respect to the Rayleigh system. (English summary) **2001b:47075**
**D'yachenko, M. I.** Two-dimensional Waterman classes and $u$-convergence of Fourier series. (Russian. Russian summary) **2001b:42002**
**Fay, Temple H.** (*with* Kloppers, P. Hendrik) The Gibbs' phenomenon. (English summary) **2001k:01035**
**Golubov, B. I.** On boundedness of the Hardy and Bellman operators in the spaces $H$ and BMO. (English summary) **2001h:47077**
**Jiménez Pozo, Miguel A.** *see* **Bustamante González, Jorge, (2001d:00037)**
**Kloppers, P. Hendrik** *see* **Fay, Temple H., 2001k:01035**
**Kozma, Gady** (*with* Olevskiĭ, A. M.) An "analytic" version of Menshov's representation theorem. (English and French summaries) **2001d:42003**
**Leindler, László** On the equivalence of classes of numerical sequences. (English and Russian summaries) **2001i:40002**
**Lusky, Wolfgang** On the Fourier series of unbounded harmonic functions. (English summary) **2001c:46047**
**Narici, Lawrence** *see* **Bachman, George et al., 2001a:42001**
**Olevskiĭ, A. M.** *see* **Kozma, Gady, 2001d:42003**
**Simonov, B. V.** On a theorem of P. L. Ul'yanov. (Russian. English and Russian summaries) **2001i:42005**
**Skhirtladze, I.** (*with* Skhirtladze, N. M.) On the Zygmund's functions. (English summary)
**Skhirtladze, N. M.** *see* **Skhirtladze, I.**
**Telyakovskiĭ, S. A.** The Riemann localization principle, and an estimate for the rate of convergence. (Russian. Russian summary) **2001i:42011**
**Thiele, Christoph** The quartile operator and pointwise convergence of Walsh series. (English summary) **2001b:42007**
**Weisz, Ferenc** $\theta$-summation and Hardy spaces. (English summary) **2001m:42012**

## 42A24 Summability and absolute summability of Fourier and trigonometric series

**Bojanic, Ranko** *see* **Humphreys, Natalia, 2001f:42006**
**Bor, Hüseyin** Local properties of Fourier series. (English summary) **2001c:42004**
**Bruĭ, I. N.** Trigonometric series of the classes $L^p(T)$ and their matrix means. (Russian. English and Russian summaries) **2001g:42012**
**Chandra, Prem** Absolute Riesz summability and a criterion for the absolute convergence of a Fourier series. (English summary)
**Dai, Feng** Localization for linear means of Fourier-Laplace series. (Chinese. English and Chinese summaries)
**Dalai, Dhirendra Kumar** *see* **Jena, Subas Chandra et al.**
**Dikshit, G. D.** Absolute Nevanlinna summability and Fourier series. (English summary) **2001f:42005**
**Fedorenko, An. S.** Approximation of periodic functions from the classes $C^{\psi}_{\beta} H_{\omega_1}$ by de la Vallée Poussin sums. (Ukrainian. English summary)
**He, Jia Xing** On summability theory and method of Fourier series. (English summary) **2001k:42004**
**Humphreys, Natalia** (*with* Bojanic, Ranko) Rate of convergence for the absolutely $(C, \alpha)$ summable Fourier series of functions of bounded variation. (English summary) **2001f:42006**
**Jena, Subas Chandra** (*with* Dalai, Dhirendra Kumar) Absolute harmonic summability of a factored Fourier series. (English summary)
— (*with* Swain, Sakuntala; Dalai, Dhirendra Kumar) Absolute generalised Cesaro summability of a Fourier series. (English summary)
**Kivinukk, Andi** (*with* Verhovitš, Julia) Summation methods of trigonometric Fourier series defined by the Zak transform. (English and Estonian summaries) **2001m:42011**
**Krishna Nigam, Hare** *see* **Lal, Shyam**
**Kumar, Sanjay** On Riesz means of Fourier series.
**Lal, Shyam** (*with* Pratap, Ajay) On $K^{\lambda}$-summability of Fourier series. (English summary)
— (*with* Pratap, Ajay) On the degree of approximation of functions belonging to weight $(L^p, \xi(t))$ class of its conjugate series by $(N, p, q)$ mean. (English summary)
— (*with* Krishna Nigam, Hare) On $K^{\lambda}$-summability of derived Fourier series. (English summary)
— (*with* Yadav, Surendra Singh) On matrix-Cesaro summability of Fourier coefficients. (English summary)
**Mazhar, S. M.** Absolute summability factors for Fourier series. (English summary) **2001c:42005**
**Móricz, Ferenc** On the Riemann summability of Fourier integrals and real Hardy spaces. (English summary) **2001h:42009**
**Naumov, O. P.** On the Poisson-Abel method for the summation of Fourier series in multiplicative systems. (Russian. English and Russian summaries) **2001k:42005**
**Nosenko, Yu. L.** Regularity of means of Bernstein-Rogosinski type. (Russian. English summary) (*see* **2001g:00028**)
**Pratap, Ajay** *see* **Lal, Shyam**
**Ray, Braja Kishore** (*with* Sahoo, A. K.) On a paper of Jena and Swain. (English summary) **2001f:42007**
**Sahoo, A. K.** *see* **Ray, Braja Kishore, 2001f:42007**
**Shyamlal** (*with* Yadav, Purnima) On the study of Fourier series by $K^{\lambda}$-summability method. (English summary)
**Sikk, Jaak** The sets of abstract trigonometric series induced by $L^p$. (English summary) **2001j:42006**
**Swain, Sakuntala** *see* **Jena, Subas Chandra et al.**
**Tripathi, Surendra Kumar** *see* **Tripathi, V. N.**
**Tripathi, V. N.** (*with* Tripathi, Surendra Kumar) On uniform $(N, p, q)$ summability of Fourier series and its conjugate series. (Hindi. English and Hindi summaries)
**Verhovitš, Julia** *see* **Kivinukk, Andi, 2001m:42011**
**Weisz, Ferenc** $\theta$-summation and Hardy spaces. (English summary) **2001m:42012**
**Yadav, Purnima** *see* **Shyamlal**
**Yadav, Surendra Singh** *see* **Lal, Shyam**

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**Bakuradze, M.** On conjugate trigonometric series. (English summary)
**Bakuridze, M.** On Fourier trigonometric series. (English summary)
**Bushev, D. N.** Approximation of classes of periodic functions with small smoothness. (Ukrainian. English and Ukrainian summaries) **2001a:42002**
**Girgensohn, Roland** A unified view of classical summation kernels. (English summary) **2001i:42004**
**Goginava, U.** (*with* Kopaliani, T.) On the boundedness of maximal Cesàro operators in some functional spaces. (English summary)
**Il'yasov, N. A.** Approximation by Fejér-Zygmund means on some classes of periodic functions in $L_p$. (Russian. Russian summary) (*see* **2001f:00019**)
**Kopaliani, T.** *see* **Goginava, U.**
**Makharadze, D.** Some local approximation properties of Cezàro means of trigonometric Fourier series. (English summary) [Some local approximation properties of Cesàro means of trigonometric Fourier series]
— Some approximate properties of the Cezàro average of the conjugate trigonometric Fourier series. (English summary) [Some approximate properties of the Cesàro average of the conjugate trigonometric Fourier series]
**Mittal, Madan Lal** (*with* Rhoades, Billy E.) On the degree of approximation of continuous functions by using linear operators on their Fourier series. (English summary) **2001a:42004**
**Pachulia, N. L.** On the strong summability of Fourier series of a summable function. (Russian. English and Ukrainian summaries) **2001m:42005**
**Pati, T.** On the convergence and summability $(C, 1)$ of the Lebesgue-Fourier series.
**Podlubny, Igor** (*with* Srivastava, Hari M.) Some properties of finite Fourier transformations and their application to the summation of a class of trigonometric series. (English summary) **2001b:33008**
**Rhoades, Billy E.** *see* **Mittal, Madan Lal, 2001a:42004**
**Srivastava, Hari M.** Some recent developments in the theory and applications of a class of finite Fourier transformations. (English summary) **2001g:33011**
— *see also* **Podlubny, Igor, 2001b:33008**
**Stepanets, A. I.** Approximation of $\overline{\psi}$-integrals of periodic functions by Fourier sums (small smoothness). I. (Russian. English and Ukrainian summaries) **2001g:42005**
— Approximation of $\overline{\psi}$-integrals of periodic functions by Fourier sums (small smoothness). II. (Russian. English and Ukrainian summaries) **2001g:42006**
— The rate of convergence of a group of deviations on sets of $\overline{\psi}$-integrals. (Russian. English and Ukrainian summaries) **2001a:42005**
**Szal, Bogdan** On the strong approximation by Fourier series in Lipschitz norms. (English and Georgian summaries) **2001g:42007**
**Vinogradov, O. L.** The limit of Lebesgue constants of summation methods for Fourier-Legendre series defined by a multiplier function. (Russian. English and Russian summaries) **2001a:42028**
**Zhizhiashvili, L.** Uniform convergence and summability of Fourier series. (English summary)

## 42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

**Chen, Chang-Pao** (*with* Luor, Dah-Chin) Two-parameter Hardy-Littlewood inequality and its variants. (English summary) **2001c:42006**
**Liflyand, E.** A Fourier transform approach to the integrability of trigonometric series. (English summary) **2001j:42007**
**Luor, Dah-Chin** *see* **Chen, Chang-Pao, 2001c:42006**
**Protasov, Vladimir** Refinement equations with nonnegative coefficients. (English summary) **2001i:42008**
**Telyakovskiĭ, S. A.** On some special multiple sine series. (Russian) **2001h:42010**

Items with secondary classifications in 42A32

**Adamchik, V. S.** *see* **Srivastava, Hari M. et al., 2001g:11136**

**Belov, A. S.** New examples of nonnegative trigonometric polynomials with integer coefficients. (Russian. English and Russian summaries) **2001e:42002**

**Bhatia, S. S.** (*with* Ram, Babu) On convergence of certain trigonometric sums in the $L^1$ metric space. (English summary) **2001i:42007**

**Chen, Chang-Pao** (*with* Chen, Lonkey) Asymptotic behavior of trigonometric series with $O$-regularly varying quasimonotone coefficients. II. (English summary) **2001h:42007**

**Chen, Lonkey** *see* **Chen, Chang-Pao, 2001h:42007**

**Duchoň, Miloslav** (*with* Maličký, Peter) Positive linear maps on trigonometric polynomials. (English summary) **2001g:42009**

**Glasser, M. L.** *see* **Srivastava, Hari M. et al., 2001g:11136**

**Gneiting, Tilmann** Power-law correlations, related models for long-range dependence and their simulation. (English summary)

**Leindler, László** On the equivalence of classes of Fourier coefficients. (English summary) **2001b:42003**

**Liflyand, E.** On Bausov-Telyakovskiĭ type results. (English summary) **2001m:42010**

**Maličký, Peter** *see* **Duchoň, Miloslav, 2001g:42009**

**Mockenhaupt, Gerd** Salem sets and restriction properties of Fourier transforms. **2001m:42026**

**Ram, Babu** *see* **Bhatia, S. S., 2001i:42007**

**Srivastava, Hari M.** (*with* Glasser, M. L.; Adamchik, V. S.) Some definite integrals associated with the Riemann zeta function. (English summary) **2001g:11136**

**Tomovski, Živorad** Necessary and sufficient condition for $L^1$-convergence of cosine trigonometric series with $\delta$-quasimonotone coefficients. (English summary) **2001b:42005**

**Xiao, Wei** (*with* Xie, Ting Fan; Zhou, Song Ping) The optimal degree of approximation by a class of trigonometric series. (Chinese. Chinese summary) **2001j:42005**

**Xie, Ting Fan** *see* **Xiao, Wei et al., 2001j:42005**

**Zhou, Song Ping** *see* **Xiao, Wei et al., 2001j:42005**

## 42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

**Abzhandadze, Z. L.** On a spectral radius for nonlinear Fourier transformation. (English summary)

**Anter, A.** Application of the $A^{\wedge}$-integration to the Fourier transform. (Russian. English and Russian summaries)

**Balilla, Edwin A.** (*with* Reyes, Noli N.) Weighted uncertainty principles in $L^\infty$. (English summary) **2001k:42006**

**Berens, Hubert** (*with* Li, Luoqing) The maximal Cesàro operator on Hardy spaces. (English summary) **2001k:42007**

**Candan, Çağatay** (*with* Kutay, M. Alper; Ozaktas, Haldun M.) The discrete fractional Fourier transform. (English summary) **2001k:42008**

**Danas, George** *see* **Terzidis, Haralambos**

**Ding, Jian-Jiun** *see* **Pei, Soo-Chang, 2001k:42009** *and* **2001m:42015**

**Fang, Gen Sun** (*with* Long, Jingfan) Riesz basis, Paley-Wiener class and tempered splines. (English summary) **2001m:42013**

— *see also* **Wang, Jian Jun**

**Goginava, U.** (*with* Kopaliani, T.) On the boundedness of maximal Cesàro operators in some functional spaces. (English summary)

**Habibullah, G. Mustafa** Fourier operators involving vector parameters. **2001b:42006**

**Hu, Tian-You** Asymptotic behavior of Fourier transforms of self-similar measures. (English summary) **2001m:42014**

**Kim, Hee Jung** Fourier and Legendre transform of exponential functions of polynomials. (English summary) **2001f:42008**

**Kirilov, S. O.** An estimate for the Fourier coefficients of functions in the Orlicz classes. (Ukrainian. English and Russian summaries)

**Kopaliani, T.** *see* **Goginava, U.**

**Krylov, A. S.** (*with* Lyakishev, A. V.) Numerical projection method for inverse Fourier transform and its application. (English summary) **2001h:42011**

**Kutay, M. Alper** *see* **Candan, Çağatay et al., 2001k:42008**

**Li, Luoqing** *see* **Berens, Hubert, 2001k:42007**

**Long, Jingfan** *see* **Fang, Gen Sun, 2001m:42013**

**Lyakishev, A. V.** *see* **Krylov, A. S., 2001h:42011**

**Ozaktas, Haldun M.** *see* **Candan, Çağatay et al., 2001k:42008**

**Pei, Soo-Chang** (*with* Ding, Jian-Jiun) Closed-form discrete fractional and affine Fourier transforms. (English summary) **2001k:42009**

— (*with* Ding, Jian-Jiun) Simplified fractional Fourier transforms. (English summary) **2001m:42015**

**Reshnyak, O. O.** *see* **Voitovich, N. N. et al., 2001f:42009**

**Reyes, Noli N.** *see* **Balilla, Edwin A., 2001k:42006**

**Strichartz, Robert S.** Mock Fourier series and transforms associated with certain Cantor measures. (English summary) **2001i:42009**

**Terzidis, Haralambos** (*with* Danas, George) The spectral analysis of the discrete Fourier transform. (English summary)

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**Zhou, Hong Yu** *see* **Liu, Ling Pu et al.**
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## 42A45 Multipliers

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## 42A50 Conjugate functions, conjugate series, singular integrals

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**Tadmor, Eitan** *see* **Gelb, Anne, 2001i:42003**
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**Weisz, Ferenc** $\theta$-summation and Hardy spaces. (English summary) **2001m:42012**

## 42A55 Lacunary series of trigonometric and other functions; Riesz products

**Neuwirth, Stefan** Two random constructions inside lacunary sets. **2001c:42007**

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**Volchkov, Vit. V.** Uniqueness theorems for multiple trigonometric series with gaps. (Russian. English and Ukrainian summaries) **2001e:42010**

## 42A61 Probabilistic methods

**Schlag, Wilhelm** On minima of the absolute value of certain random exponential sums. (English summary) **2001g:42014**

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**Neuwirth, Stefan** Two random constructions inside lacunary sets. **2001c:42007**
**Pedersen, Thomas Vils** Some properties of the Pisier algebra. (English summary) **2001b:43008**
**Weber, Michel Jean Georges** Estimating random polynomials by means of metric entropy methods. (English summary) **2001m:60084**

## 42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

**Ash, J. Marshall** (*with* Wang, Gang[2]) Sets of uniqueness of the power of the continuum. (English and Georgian summaries) **2001k:42010**
**Chung, Soon-Yeong** *see* **Kim, Hee Jung et al., 2001m:42018**
**Kahane, Jean-Pierre** Baire's category theorem and trigonometric series. **2001f:42012**
**Kim, Dohan** *see* **Kim, Hee Jung et al., 2001m:42018**
**Kim, Hee Jung** (*with* Chung, Soon-Yeong; Kim, Dohan) Uniqueness of a nonharmonic trigonometric series under an exponential growth condition. (English summary) **2001m:42018**
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**Bloshanskiĭ, I. L.** On sets of unbounded divergence at each point of a multiple Fourier series of a function equal to zero on a closed set. (Russian. English and Russian summaries) **2001i:42015**

**Gröchenig, Karlheinz** (*with* Zimmermann, Georg) Hardy's theorem and the short-time Fourier transform of Schwartz functions. (English summary) **2001k:46065**

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**Wang, Gang²** *see* **Ash, J. Marshall, 2001a:42009**

**Zimmermann, Georg** *see* **Gröchenig, Karlheinz, 2001k:46065**

## 42A65 Completeness of sets of functions

**Boumenir, Amin** Irregular sampling and the inverse spectral problem. (English summary) **2001i:42012**

**Byrnes, J. S.** (*with* Moran, William; Saffari, Bahman) Smooth PONS. (English summary) **2001k:42011**

**Gröchenig, Karlheinz** (*with* Heil, Christopher; Walnut, David) Nonperiodic sampling and the local three squares theorem. (English summary) **2001g:42015**

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**Sedletskiĭ, A. M.** On the stability of the uniform minimality of a system of exponentials. (Russian. Russian summary) **2001i:42013**

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**Seip, Kristian** On Gröchenig, Heil, and Walnut's proof of the local three squares theorem. **2001g:42016**

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**Gabardo, Jean-Pierre** Hilbert spaces of distributions having an orthogonal basis of exponentials. (English summary) **2001e:42038**

**Gubreev, G. M.** (*with* Olefir, E. I.) Unconditional basis property of some families of functions, the matrix Muckenhoupt condition, and Carleson series in the spectrum. (Russian. English and Russian summaries) **2001h:47024**

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**Pedersen, Henrik L.** Entire functions and logarithmic sums over nonsymmetric sets of the real line. (English summary) **2001f:30034**

**Prudnikov, Anatoliĭ Platonovich** *see* **Moiseev, Evgeniĭ Ivanovich**

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## 42A70 Trigonometric moment problems

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**Ambrozie, Călin-Grigore** A note on moment problems. (English summary) **2001g:44013**

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## 42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

**Adamczak, Marek** On compactness of $C^{(a)}$-almost periodic functions. (English summary) **2001h:42013**

**Stoiński, Stanisław** On the derivative of a Bohr's almost periodic function. (English summary) **2001k:42012**

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**Chung, Jaeyoung** (*with* Chung, Soon-Yeong; Kim, Dohan; Kim, Hee Jung) Trigonometric series and almost periodic generalized functions. (English summary) **2001b:46062**

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**Santucci, Paola** *see* **Grande, Renato, 2001a:41016**

**Spitkovsky, Ilya M.** *see* **Böttcher, Albrecht et al., 2001c:47034**

## 42A82 Positive definite functions

**Bhatia, Rajendra** (*with* Parthasarathy, Kalyanapuram Rangachari) Positive definite functions and operator inequalities. (English summary) **2001b:42008**

**Bisgaard, Torben Maack** On the positive definiteness of $n \mapsto e^{in^\alpha}$. (English summary) **2001g:42017**

**Drouiche, Karim** (*with* Seghier, Abdellatif) Extension de fonctions de type positif avec poids. Cas de la dimension un. (English and French summaries) [Extension of weighted positive-definite functions. One-dimensional case] **2001m:42019**

**Gneiting, Tilmann** (*with* Konis, Kjell; Richards, Donald St. P.) Experimental approaches to Kuttner's problem. (English summary)

**Koldobsky, Alexander** (*with* Lonke, Yossi) A short proof of Schoenberg's conjecture on positive definite functions. (English summary) **2001j:42008**

— Positive definite distributions and subspaces of $L_{-p}$ with applications to stable processes. (English summary) **2001i:42014**

**Konis, Kjell** *see* **Gneiting, Tilmann et al.**

**Lonke, Yossi** *see* **Koldobsky, Alexander, 2001j:42008**

**Lopotko, O. V.** On the extension of even positive-definite functions of one and two variables. (Russian. English and Ukrainian summaries) **2001h:42014**

**Parthasarathy, Kalyanapuram Rangachari** *see* **Bhatia, Rajendra, 2001b:42008**

**Richards, Donald St. P.** *see* **Gneiting, Tilmann et al.**

**Seghier, Abdellatif** *see* **Drouiche, Karim, 2001m:42019**

**Zastavnyi, V. P.** On positive definiteness of some functions. (English summary) (*see* **2001g:00028**)

Items with secondary classifications in 42A82

**Genin, Yves V.** Hankel matrices, positive functions and related questions. (English summary) **2001d:47038**

**Menegatto, V. A.** *see* **Sun, Xingping, 2001e:41006**

**Mokni, K.** (*with* Trimèche, Khalifa) Generalized Laplacians and Levy-Khintchine formula for $k$-variable continuous polynomial hypergroups. (English summary) **2001b:43009**

**Sasvári, Zoltán** On the number of negative squares of certain functions. (English summary) **2001f:47064**

**Sun, Xingping** (*with* Menegatto, V. A.) Strictly positive definite functions on the complex Hilbert sphere. (English summary) **2001e:41006**

**Trimèche, Khalifa** *see* **Mokni, K., 2001b:43009**

## 42A85 Convolution, factorization

**Gergün, Seçil** (*with* Ostrovskiĭ, Iosif Vladimirovich; Ulanovskiĭ, A. M.) On the Titchmarsh convolution theorem. (English and French summaries) **2001d:42005**

**Ostrovskiĭ, Iosif Vladimirovich** *see* **Gergün, Seçil et al., 2001d:42005**

**Peres, Yuval** (*with* Schlag, Wilhelm; Solomyak, Boris) Sixty years of Bernoulli convolutions. (English summary) **2001m:42020**

**Schlag, Wilhelm** *see* **Peres, Yuval et al., 2001m:42020**

**Solomyak, Boris** *see* **Peres, Yuval et al., 2001m:42020**

**Ulanovskiĭ, A. M.** *see* **Gergün, Seçil et al., 2001d:42005**

Items with secondary classifications in 42A85

**Ash, J. Marshall** Uniqueness for spherically convergent multiple trigonometric series. (English summary) **2001f:42014**

**Baishanski, Bogdan** Norms of powers and a central limit theorem for complex-valued probabilities. **2001e:42001**

**Batty, Charles J. K.** (*with* Chill, Ralph) Bounded convolutions and solutions of inhomogeneous Cauchy problems. (English summary) **2001d:47061**

**Chill, Ralph** *see* **Batty, Charles J. K., 2001d:47061**

**Olesen, V.** Weighted norm inequalities for maximal convolution-type operators. **2001b:42024**

**Weisz, Ferenc** $\theta$-summation and Hardy spaces. (English summary) **2001m:42012**

## 42A99 None of the above, but in this section

**Walker, W. J.** The arithmetic Fourier transform and the visual pathway. (English summary)

Items with secondary classifications in 42A99

**Anastassiou, George A.** (*with* Gal, Sorin G.) Convergence of generalized singular integrals to the unit, univariate case. (English summary) **2001i:41033**
**Avdonin, Sergei** *see* **Seidman, Thomas I. et al., 2001k:42038**
**Ding, Xia Xi** (*with* Luo, Peizhu) Generalized expansions in Hilbert space. (English summary) **2001b:47033**
— (*with* Luo, Peizhu) Weak convergence of some series. (English summary) **2001m:46042**
**Fukuyama, Katusi** The central limit theorem for Riesz-Raikov sums and related topics. (Japanese) (*see* **2001d:00053**)
**Gal, Sorin G.** *see* **Anastassiou, George A., 2001i:41033**
**Ivanov, Sergei A.** *see* **Seidman, Thomas I. et al., 2001k:42038**
**de Kraker, A.** *see* **Overdijk, D. A. et al., 2001m:93085**
**Lewicki, Grzegorz** (*with* Marino, Giuseppe; Pietramala, Paolamaria) Fourier-type minimal extensions in real $L_1$-space. (English summary) **2001m:46064**
**Lin, Wei**[1] *see* **Zhang, Yong Hu, (2001j:00025)**
**Luo, Peizhu** *see* **Ding, Xia Xi, 2001b:47033** *and* **2001m:46042**
**Marino, Giuseppe** *see* **Lewicki, Grzegorz et al., 2001m:46064**
**Overdijk, D. A.** (*with* van de Wouw, N.; de Kraker, A.) Alternative methods in spectral factorization. A modeling and design tool. (English summary) **2001m:93085**
**Pietramala, Paolamaria** *see* **Lewicki, Grzegorz et al., 2001m:46064**
**Rambour, Philippe** (*with* Rinkel, Jean-Marc; Seghier, Abdellatif) Inverse asymptotique de la matrice de Toeplitz et noyau de Green. (English and French summaries) [Asymptotic inverse of the Toeplitz matrix and Green kernel] **2001m:15016**
**Rinkel, Jean-Marc** *see* **Rambour, Philippe et al., 2001m:15016**
**Seghier, Abdellatif** *see* **Rambour, Philippe et al., 2001m:15016**
**Seidman, Thomas I.** (*with* Avdonin, Sergei; Ivanov, Sergei A.) The "window problem" for series of complex exponentials. (English summary) **2001k:42038**
**van de Wouw, N.** *see* **Overdijk, D. A. et al., 2001m:93085**
**Zhang, Yong Hu** (*with* Lin, Wei[1]) Wavelet method for the numerical approximation of Bergman kernel. (English summary) (*see* **2001j:00025**)

# 42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

## 42B05 Fourier series and coefficients

**Ash, J. Marshall** Uniqueness for spherically convergent multiple trigonometric series. (English summary) **2001f:42014**
— (*with* Wang, Gang[2]) Some spherical uniqueness theorems for multiple trigonometric series. (English summary) **2001a:42009**
**Aubry, Jean-Marie** Traces of oscillating functions. (English summary) **2001g:42018**
**Baron, S.** (*with* Liflyand, E.; Stadtmüller, Ulrich) Complementary spaces and multipliers of double Fourier series for functions of bounded variation. (English summary) **2001j:42009**
**Bloshanskiĭ, I. L.** On sets of unbounded divergence at each point of a multiple Fourier series of a function equal to zero on a closed set. (Russian. English and Russian summaries) **2001i:42015**
**Cooke, Roger L.** *see* **LaVarnway, Gerard T., 2001k:42013**
**Danelia, A.** On the approximation property of Cesaro transformations of multiple conjugate trigonometric series. (English summary)
— On the approximation property of Abel-Poisson transformations of multiple conjugate trigonometric series. (English summary)
— On approximation property of Cesàro transformations. (English summary)
— On the approximation property of Abel-Poisson transformations. (English summary)
**D'yachenko, M. I.** The rate of Pringsheim convergence of multiple Fourier series of piecewise-monotone functions of several variables in the space $L$. (Russian. English and Russian summaries) **2001i:42016**
**Goginava, U.** On the uniform convergence of multiple Fourier series with respect to the trigonometric system. (English summary)
**Helmberg, Gilbert** A corner point Gibbs phenomenon for Fourier series in two dimensions. (English summary) **2001e:42009**
**Ivanova, O. K.** Majorant estimates for partial sums of multiple Fourier series from Orlicz spaces that vanish on some set. (Russian. Russian summary) **2001h:42015**
**Kamaly, Amir** A new local variant of the Hausdorff-Young inequality. (English summary) **2001h:42016**
**Kuznetsova, O. I.** Sidon-type inequalities and the integrability of $N$-dimensional trigonometric series. (Russian. English summary) (*see* **2001g:00028**)
**Lal, Shyam** On the degree of approximation of conjugate of a function belonging to weighted $W(L^r, \xi(t))$ class by matrix summability means of conjugate series of a Fourier series. (English summary) **2001k:42014**
**LaVarnway, Gerard T.** (*with* Cooke, Roger L.) A characterization of Fourier series of Stepanov almost-periodic functions. (English summary) **2001k:42013**
**Lepsveridze, G.** On the spherical divergence of double Fourier-Haar series. (English summary)
**Lewicki, Grzegorz** On the unique minimality of the Fourier-type extensions in $L_1$-space. **2001h:42017**
**Liflyand, E.** *see* **Baron, S. et al., 2001j:42009**
**Móricz, Ferenc** Approximation by rectangular partial sums of double conjugate Fourier series. (English summary) **2001g:42019**
**Nursultanov, E. D.** On the coefficients of multiple Fourier series from $L_p$-spaces. (Russian. Russian summary) **2001f:42015**
**Stadtmüller, Ulrich** *see* **Baron, S. et al., 2001j:42009**
**Tetunashvili, Sh.** On multiple trigonometric series. (English summary)
**Tevzadze, T. Sh.** On an estimate of private integral modulus of smoothness function of several variables. (English summary)
**Vinogradov, O. L.** (*with* Zhuk, V. V.) On the precision of a representation of the Steklov means of functions of two variables by means of singular integrals. (English summary) **2001m:42021**
**Volchkov, Vit. V.** Uniqueness theorems for multiple trigonometric series with gaps. (Russian. English and Ukrainian summaries) **2001e:42010**
**Wang, Gang**[2] *see* **Ash, J. Marshall, 2001a:42009**
**Zhuk, V. V.** *see* **Vinogradov, O. L., 2001m:42021**

Items with secondary classifications in 42B05

**Bachman, George** (*with* Narici, Lawrence; Beckenstein, Edward) ★ Fourier and wavelet analysis. (English summary) **2001a:42001**
**Beckenstein, Edward** *see* **Bachman, George et al., 2001a:42001**
**Doha, E. H.** The coefficients of differentiated expansions of double and triple ultraspherical polynomials. (English summary) **2001h:42042**
**Kheyfits, Alexander** A sampling theorem for solutions of the Dirichlet problem for the Schrödinger operator. (English summary) (*see* **2001d:00046**)
**Kolountzakis, Mihail N.** Non-symmetric convex domains have no basis of exponentials. (English summary) **2001h:52019**
**Lagarias, Jeffrey C.** (*with* Reeds, James A.; Wang, Yang[3]) Orthonormal bases of exponentials for the $n$-cube. **2001h:11104**
**Lyubarskiĭ, Yurii I.** (*with* Rashkovskiĭ, A. Yu.) Complete interpolating sequences for Fourier transforms supported by convex symmetric polygons. **2001m:32013**
**Mittal, Madan Lal** (*with* Rhoades, Billy E.) Approximation by matrix means of double Fourier series to continuous functions in two variables. (English and Serbo-Croatian summaries) **2001e:41026**
**Narici, Lawrence** *see* **Bachman, George et al., 2001a:42001**
**Nursultanov, E. D.** (*with* Tleukhanova, N. T.) On multipliers of multiple Fourier series. (Russian. Russian summary) **2001j:42011**
**Rashkovskiĭ, A. Yu.** *see* **Lyubarskiĭ, Yurii I., 2001m:32013**
**Reeds, James A.** *see* **Lagarias, Jeffrey C. et al., 2001h:11104**
**Rhoades, Billy E.** *see* **Mittal, Madan Lal, 2001e:41026**
**Roginskaya, M. M.** Two multidimensional analogues of the theorem of F. and M. Riesz. (Russian. English and Russian summaries) **2001a:42012**
**Telyakovskiĭ, S. A.** On some special multiple sine series. (Russian) **2001h:42010**
**Tetunashvili, Sh.** On some properties of double function series. (English summary)
**Tleukhanova, N. T.** *see* **Nursultanov, E. D., 2001j:42011**
**Uhrin, Béla** Periodic properties of functions and coloured sets. (English summary) **2001e:11074**
**Wang, Yang**[3] *see* **Lagarias, Jeffrey C. et al., 2001h:11104**
**Zeng, Qingye** Pointwise estimate for the rate of convergence of Fourier-Laplace series. (English and Chinese summaries)

## 42B08 Summability

**Ash, J. Marshall** Remarks on W. H. Young's "On multiple Fourier series". (English summary) **2001h:42018**
**Chen, Shouyin** (*with* Li, Luoqing) Realization of Peetre $K$-modulus on the sphere. (English summary) **2001e:42011**
**Dai, Feng** (*with* Zhang, Xirong) $L^p$ convergence of Cesàro means on sphere. (English summary) **2001m:42022**
**D'yachenko, M. I.** Fourier transforms of piecewise-monotone functions of several variables. (Russian. Russian summary) **2001a:42010**
**Goginava, U.** Summability of multiple trigonometric Fourier series in $L^p([0, 2\pi]^N)$ spaces. (English summary)
— Uniform convergence of Cesaro means of negative order of $N$-dimensional trigonometric Fourier series. (English summary)
**Kuznetsova, O. I.** On the integrability of a class of $N$-dimensional trigonometric series. (Russian. English and Ukrainian summaries) **2001m:42023**
**Lal, Shyam** (*with* Yadav, Kalp Nath Singh) On the summability of double Fourier series by $K^{\lambda,\alpha}$-method. (English summary)
— (*with* Pratap, Ajay) On $(N, p_n, q_m)$ summability of a double Fourier series. (English summary)
**Leladze, D.** On summability of multiple trigonometric Fourier series. (English summary)
**Lepsveridze, G.** On the divergence of the Fejer means of multiple trigonometric Fourier series. (English summary)
— A note on the divergence of the Fejer means of multiple trigonometric Fourier series.
**Li, Luoqing** *see* **Chen, Shouyin, 2001e:42011**
**Pratap, Ajay** *see* **Lal, Shyam**
**Taylor, Michael E.** The Dirichlet-Jordan test and multidimensional extensions. (English summary) **2001g:42020**
**Vinogradov, O. L.** *see* **Zhuk, V. V., 2001k:42016**
**Weisz, Ferenc** Fejér means of two-dimensional Fourier transforms on $H_p(\mathbf{R} \times \mathbf{R})$. (English summary) **2001a:42011**
— $(C, \alpha)$ means of several-parameter Walsh- and trigonometric-Fourier series. (English summary) **2001k:42015**
— A generalization for Fourier transforms of a theorem due to Marcinkiewicz. (English summary) **2001m:42024**
**Yadav, Kalp Nath Singh** *see* **Lal, Shyam**
**Zhang, Xirong** *see* **Dai, Feng, 2001m:42022**
**Zhuk, V. V.** (*with* Vinogradov, O. L.) The estimated accuracy of representation of functions of two variables by singular integrals via the mixed moduli of continuity of their primitives. (English summary) **2001k:42016**

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**Baron, S.** (*with* Liflyand, E.; Stadtmüller, Ulrich) Complementary spaces and multipliers of double Fourier series for functions of bounded variation. (English summary) **2001j:42009**
**Berens, Hubert** (*with* Li, Luoqing) The maximal Cesàro operator on Hardy spaces. (English summary) **2001k:42007**

**Blahota, I.** (*with* Gát, György) Pointwise convergence of double Vilenkin-Fejér means. (English summary) **2001h:42041**
**Brandolini, Luca** (*with* Colzani, Leonardo) Localization and convergence of eigenfunction expansions. (English summary) **2001g:42054**
**Colzani, Leonardo** *see* **Brandolini, Luca, 2001g:42054**
**Dai, Feng** *see* **Yu, Chun Wu**
**Danelia, A.** On the approximation property of Abel-Poisson transformations of multiple conjugate trigonometric series. (English summary)
**Gát, György** *see* **Blahota, I., 2001h:42041**
**Goginava, U.** On some $(H_{p,q}, L_{p,q})$-type maximal inequalities with respect to the Walsh-Paley system. (English summary) **2001j:42022**
**Lal, Shyam** On the degree of approximation of conjugate of a function belonging to weighted $W(L^p, \xi(t))$ class by matrix summability means of conjugate series of a Fourier series. (English summary) **2001k:42014**
**Li, Luoqing** *see* **Berens, Hubert, 2001k:42007**
**Liflyand, E.** *see* **Baron, S. et al., 2001j:42009**
**Simon, Péter** Cesaro summability with respect to two-parameter Walsh systems. (English summary) **2001m:42052**
**Stadtmüller, Ulrich** *see* **Baron, S. et al., 2001j:42009**
**Topuriya, S. B.** The generalized Laplace operator on a sphere and summation of differentiated Fourier-Laplace series using the Abel's method. (English summary)
**Vinogradov, O. L.** (*with* Zhuk, V. V.) On the precision of a representation of the Steklov means of functions of two variables by means of singular integrals. (English summary) **2001m:42021**
**Weisz, Ferenc** A generalization of a theorem due to Marcinkiewicz. (English summary) **2001h:42033**
— The maximal Riesz operator of two-dimensional Fourier transforms and Fourier series on $H_p(\mathbf{R} \times \mathbf{R})$ and $H_p(\mathbf{T} \times \mathbf{T})$. (English summary) **2001e:42014**
**Yu, Chun Wu** (*with* Dai, Feng) An almost everywhere convergence problem for certain multiplicator operators. (Chinese. English and Chinese summaries)
**Zhuk, V. V.** *see* **Vinogradov, O. L., 2001m:42021**

## 42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

**Banjă, Valeriu** An extension of the Hausdorff-Young inequality. (English summary)
**Bavrin, I. I.** (*with* Yaremko, O. È.) Fourier integral transforms on compacta from $\mathbf{R}^n$ and their applications to the moment problem. (Russian)
**Brackx, F.** (*with* Sommen, Franciscus) Clifford-Hermite wavelets in Euclidean space. (English summary) **2001g:42021**
**Carbery, Anthony** (*with* Seeger, Andreas) Weighted inequalities for Bochner-Riesz means in the plane. (English summary) **2001g:42022**
**Clerc, Jean-Louis** A generalized Hecke identity. (English summary) **2001h:42019**
**D'yachenko, M. I.** Spherical convergence of double Fourier integrals of functions in Waterman classes. (Russian. English and Russian summaries) **2001j:42010**
**Grafakos, Loukas** (*with* Morpurgo, Carlo) A Selberg integral formula and applications. (English summary) **2001e:42012**
**Iosevich, Alexander** Scaling properties of infinitely flat curves and surfaces. (English summary) **2001m:42025**
— (*with* Lu, Guozhen) Sharpness results and Knapp's homogeneity argument. (English summary) **2001g:42023**
**Lu, Guozhen** *see* **Iosevich, Alexander, 2001g:42023**
**Mockenhaupt, Gerd** Salem sets and restriction properties of Fourier transforms. **2001m:42026**
**Moritoh, Shinya** FBI transforms and function spaces. (Japanese) (*see* **2001f:35004**)
**Morpurgo, Carlo** *see* **Grafakos, Loukas, 2001e:42012**
**Roginskaya, M. M.** Two multidimensional analogues of the theorem of F. and M. Riesz. (Russian. English and Russian summaries) **2001a:42012**
**Safarova, R. G.** Absolute convergence of Fourier integrals of function from the class $L_p(\mathbf{R}^k)$ $(1 \le p \le 2)$. (English and Azerbaijani summaries)
**Seeger, Andreas** *see* **Carbery, Anthony, 2001g:42022**
**Sjölin, Per** (*with* Soria, Fernando) Some remarks on restriction of the Fourier transform for general measures. (English summary) **2001i:42017**
**Sommen, Franciscus** *see* **Brackx, F., 2001g:42021**
**Soria, Fernando** *see* **Sjölin, Per, 2001i:42017**
**Taylor, Michael E.** Pointwise Fourier inversion on tori and other compact manifolds. (English summary) **2001i:42018**
**Tian, Gu-ji** Heisenberg's inequality and logarithmic Heisenberg's inequality for ambiguity function. (English summary) **2001d:42006**
**Truong Van Thuong** Some geometrical properties of the spectrum of functions of Orlicz type.
**Walther, Björn G.** Some $L^p(L^\infty)$- and $L^2(L^2)$-estimates for oscillatory Fourier transforms. (English summary) **2001e:42013**
**Weisz, Ferenc** The maximal Riesz operator of two-dimensional Fourier transforms and Fourier series on $H_p(\mathbf{R} \times \mathbf{R})$ and $H_p(\mathbf{T} \times \mathbf{T})$. (English summary) **2001e:42014**
**Yaremko, O. È.** *see* **Bavrin, I. I.**

### Items with secondary classifications in 42B10

**Abouelaz, Ahmed** Integral geometry in the sphere $S^d$. **2001i:44004**
**Banh, Tong Thanh** Holomorphic extendibility of functions via nonlinear Fourier transforms. (English summary) **2001k:32019**
**Betancor, Jorge J.** (*with* Rodríguez-Mesa, Lourdes) Density properties of Hankel translations of positive definite functions. (English summary) **2001m:44009**
**Chang, Kun Soo** (*with* Kim, Byung Soo[1]; Yoo, Il) Integral transform and convolution of analytic functionals on abstract Wiener space. (English summary) **2001h:28018**
**Chen, Zhao Dou** (*with* Shen, Ya Nan) The Möbius inversion and the higher-dimensional arithmetic Fourier transform. (Chinese. English and Chinese summaries) **2001m:11007**
**Chung, Soon-Yeong** A temperature transform and a biharmonic analysis on temperatures. (English summary) **2001c:46083**
**D'yachenko, M. I.** Fourier transforms of piecewise-monotone functions of several variables. (Russian. Russian summary) **2001a:42010**
**Haslinger, Friedrich** The Bergman kernel and a generalized Fourier-Borel transform. (English summary) **2001i:32004**
**Hoang Mai Le** A property of entire functions of exponential type. (English summary) **2001i:46040**
**Kim, Byung Soo[1]** *see* **Chang, Kun Soo et al., 2001h:28018**
**Kipriyanov, I. A.** The Fourier-Bessel transform and fractional powers of differential operators. (Russian) **2001i:46067**
**Koldobsky, Alexander** A functional analytic approach to intersection bodies. (English summary) **2001m:52007**
**Kunze, Ray A.** On some problems in analysis suggested by representation theory. (English summary) **2001g:22022**
**Lacey, Michael T.** (*with* Thiele, Christoph) A proof of boundedness of the Carleson operator. (English summary) **2001m:42009**
**Morpurgo, Carlo** Extremals of some uncertainty inequalities. (English summary) **2001m:26062**
**Müller, Claus** ★ Analysis of spherical symmetries in Euclidean spaces. (English summary) **2001f:33004**
**Popov, D. A.** On the number of lattice points in three-dimensional bodies of revolution. (Russian. Russian summary) **2001g:11155**
**Qi, Min You** (*with* Tian, Gu-ji) Heisenberg's inequality in Sobolev spaces. (English summary) **2001d:35202**
**Rodríguez-Mesa, Lourdes** *see* **Betancor, Jorge J., 2001m:44009**
**Shen, Ya Nan** *see* **Chen, Zhao Dou, 2001m:11007**
**Simon, Péter** (*with* Weisz, Ferenc) Hardy-Littlewood inequalities for two-parameter Vilenkin-Fourier coefficients. (English summary) **2001m:42053**
**Thiele, Christoph** *see* **Lacey, Michael T., 2001m:42009**
**Tian, Gu-ji** *see* **Qi, Min You, 2001d:35202**
**Volchkov, Vit. V.** Uniqueness theorems for multiple trigonometric series with gaps. (Russian. English and Ukrainian summaries) **2001e:42010**
**Vũ Kim Tuấn** (*with* Zayed, Ahmed I.) Generalization of a theorem of Boas to a class of integral transforms. (English summary) **2001k:44005**
**Weisz, Ferenc** *see* **Simon, Péter, 2001m:42053**
**Yoo, Il** *see* **Chang, Kun Soo et al., 2001h:28018**
**Zayed, Ahmed I.** *see* **Vũ Kim Tuấn, 2001k:44005**

## 42B15 Multipliers

**Choi, Youngwoo** Damping oscillatory integrals with polynomial phase and convolution operators with the affine arclength measure on polynomial curves in $\mathbf{R}^n$. (English summary) **2001b:42009**
**Dai, Feng** *see* **Yu, Chun Wu**
**De Carli, Laura** (*with* Laeng, Enrico) Sharp $L^p$ estimates for the segment multiplier. (English summary) **2001m:42027**
**Hieber, Matthias** Operator valued Fourier multipliers. **2001b:42010**
**Hong, Sunggeum** Some weak type estimates for cone multipliers. (English summary) **2001e:42015**
— Weak type estimates for cone multipliers on $H^p$ spaces, $p < 1$. (English summary) **2001b:42011**
— The maximal operator of Bochner-Riesz means for radial functions. (English summary) **2001m:42028**
**Karapetyants, A. N.** (*with* Ramírez de Arellano, Enrique) On the inversion of potential type operators with kernels having singularities on a sphere. (English summary) **2001d:42007**
**Katan, V. A.** *see* **Peleshenko, B. I., 2001a:42013**
**Katz, Nets Hawk** (*with* Pereyra, Maria Cristina) Haar multipliers, paraproducts, and weighted inequalities. (English summary) **2001d:42008**
**Kim, Yong-Cheol** On the maximal operators generated by quasiradial Fourier multipliers and its applications to P.D.E.'s. (English summary) **2001d:42009**
**Laeng, Enrico** *see* **De Carli, Laura, 2001m:42027**
**Mamedov, F. I.** On two-weighted Sobolev inequality in unbounded domains. (English and Georgian summaries) **2001e:42016**
**Nursultanov, E. D.** (*with* Tleukhanova, N. T.) On multipliers of multiple Fourier series. (Russian. Russian summary) **2001j:42011**
— (*with* Tleukhanova, N. T.) Lower and upper bounds for the norm of multipliers of multiple trigonometric Fourier series in Lebesgue spaces. (Russian)
**Peleshenko, B. I.** (*with* Katan, V. A.) Convolution integrals in rearrangement-invariant spaces. (Russian. English and Russian summaries) **2001a:42013**
**Pereyra, Maria Cristina** *see* **Katz, Nets Hawk, 2001d:42008**
**Ramírez de Arellano, Enrique** *see* **Karapetyants, A. N., 2001d:42007**
**Serra, Claudia** (*with* Viviani, Beatriz) Hardy-Orlicz spaces and Hörmander's multipliers. (English summary) **2001f:42016**
**Tleukhanova, N. T.** *see* **Nursultanov, E. D., 2001j:42011**
**Viviani, Beatriz** *see* **Serra, Claudia, 2001f:42016**
**Wojciechowski, Michał** A Marcinkiewicz type multiplier theorem for $H^1$ spaces on product domains. (English summary) **2001k:42017**
— A class of Fourier multipliers on $H^1(\mathbf{R}^2)$. (English summary) **2001k:42018**
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**Rodin, V. A.** Shift of spaces by means of Hardy and Bellman transforms. (Russian)
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## 42B35 Function spaces arising in harmonic analysis

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**Bakonyi, Mihály** (*with* Rodman, Leiba; Spitkovsky, Ilya M.; Woerdeman, H. J.) Positive matrix functions on the bitorus with prescribed Fourier coefficients in a band. (English summary) **2001c:42015**
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**Kashin, B. S.** (*with* Temlyakov, Vladimir N.) On a norm and approximation characteristics of classes of functions of several variables. (Russian. Russian summary) **2001j:41034**
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**Kolountzakis, Mihail N.** Packing, tiling, orthogonality and completeness. (English summary) **2001g:52030**
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**Temlyakov, Vladimir N.** *see* **Kashin, B. S., 2001j:41034**
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# 42Cxx Nontrigonometric Fourier analysis

## 42C05 Orthogonal functions and polynomials, general theory [see also 33C45, 33C50, 33D45]

**Alfaro, Manuel** (*with* Martínez Finkelshtein, Andrei; Rezola, M. Luisa) Asymptotic properties of balanced extremal Sobolev polynomials: coherent case. (English summary) **2001a:42022**
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## 42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)

**Abilov, V. A.** Approximation of continuous functions of two variables by Fourier-Laguerre, Fourier-Hermite, and Fourier-Jacobi sums. (Russian)
**Akishev, G. A.** (*with* Makhashev, S. T.) On the absolute convergence of Fourier series in the generalized Haar system. (Russian) **2001f:42042**
**Astashkin, S. V.** Rademacher chaos in symmetric spaces. II. (English summary) **2001h:42040**
— Fourier-Rademacher coefficients of functions in symmetric spaces. (Russian. Russian summary) **2001g:42052**
**Avdispahić, Muharem** (*with* Pepić, Medo) On summability in $L^p$-norm on general Vilenkin groups. (English summary) **2001g:42053**
**Balodis, P.** (*with* Córdoba, A.) The convergence of multidimensional Fourier-Bessel series. (English summary) **2001f:42043**
**Bitsadze, K.** On changes of variable that preserve convergence and absolute convergence of Fourier-Haar series. (English summary)
— On set of divergence of multiple Fourier-Haar series. (English summary)
**Blahota, I.** (*with* Gát, György) Pointwise convergence of double Vilenkin-Fejér means. (English summary) **2001h:42041**
**Bochkarev, S. V.** On the problem of the smoothness of functions whose Fourier-Walsh series diverge almost everywhere. (Russian) **2001i:42045**
**Bokaev, N. A.** (*with* Syzdykova, N. K.) On the integrability and $L_1$-convergence of double series in multiplicative systems. (Russian. English and Russian summaries) **2001k:42032**
**Brandolini, Luca** (*with* Colzani, Leonardo) Localization and convergence of eigenfunction expansions. (English summary) **2001g:42054**
**Bryskin, I. B.** (*with* Lelond, O. V.; Semënov, E. M.) Multipliers of the Fourier-Haar series. (Russian. Russian summary) **2001i:42046**
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**Ciesielski, Zbigniew** (*with* Gevorkyan, Gegham) Franklin spline orthogonal system in $L^p(\mathbf{R})$ with $0 < p \le 1$. (English summary) **2001g:42055**
**Colzani, Leonardo** *see* **Brandolini, Luca, 2001g:42054**
**Córdoba, A.** *see* **Balodis, P., 2001f:42043**
**Doha, E. H.** The coefficients of differentiated expansions of double and triple ultraspherical polynomials. (English summary) **2001h:42042**
**Filbir, Frank** (*with* Lasser, Rupert; Obermaier, Josef) Summation kernels for orthogonal polynomial systems. (English summary) **2001i:42047**
**Gakkhar, Sunita** *see* **Lal, Shyam**
**Galkina, S. Yu.** Estimates for the Fourier-Haar coefficients of functions of two variables with bounded variation. (Russian)
**Gát, György** Pointwise convergence of the Fejér means of functions on unbounded Vilenkin groups. (English summary) **2001a:42026**
— On $(C, 1)$ summability for Vilenkin-like systems. (English summary) **2001k:42033**
— *see also* **Blahota, I., 2001h:42041**
**Getsadze, R.** On Riemann-Lebesgue theorem for systems of Chebyshev ridge polynomials. (English summary) **2001c:42017**
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**Goginava, U.** Cesàro summability of $d$-dimensional Walsh-Fourier series. (English summary)
— On the uniform summability of multiple Walsh-Fourier series. (English and Russian summaries) **2001k:42034**
— Uniform convergence of Cesàro means of negative order of $N$-dimensional Walsh-Fourier series. (English summary)
— Pointwise convergence of the Marcinkiewicz means of double Walsh series. (English summary)
— On the convergence and summability of $N$-dimensional Fourier series with respect to the Walsh-Paley systems in the spaces $L^p([0,1]^N)$, $p \in [1, +\infty]$. (English summary) **2001e:42035**
— On some $(H_{p,q}, L_{p,q})$-type maximal inequalities with respect to the Walsh-Paley system. (English summary) **2001j:42022**
— On the divergence of Walsh-Fourier series of the classes $H^\omega \cap BV(P(n) \uparrow \infty)$. (English summary)
**Golubov, B. I.** On dyadic analogues of Hardy and Hardy-Littlewood operators. (Russian. Russian summary) **2001a:42027**
**G$^p$rnevska, L. V.** On Fourier-Haar series. (English summary) (*see* **2001c:00014**)
**Guadalupe Hernández, José Javier** *see* **Ciaurri, Óscar et al., 2001a:42025**
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**Kanjin, Yuichi** Harmonic analysis of Laguerre expansions—on a transplantation theorem. (Japanese) (*see* **2001f:35004**)
**Kholshchevnikova, N. N.** An example of an $M$-set, which is not an $M_0$-set, for the Walsh system. (Russian. Russian summary) **2001j:42023**
**Lal, Shyam** (*with* Gakkhar, Sunita) On $(N, p_n)$ summability of Jacobi series. (English summary)
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**Love, E. R.** (*with* Hunter, M. N.) Expansions in series of Legendre functions. **2001i:42049**
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**Lubinsky, D. S.** (*with* Mache, D. H.) $(C, 1)$ means of orthonormal expansions for exponential weights. (English summary) **2001b:42036**
**Lukomskiĭ, S. F.** Convergence of multiple Walsh series in near to $L$ Orlicz space. (English summary) **2001i:42051**
**Mache, D. H.** *see* **Lubinsky, D. S., 2001b:42036**
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**Montgomery-Smith, Stephen J.** (*with* Semënov, E. M.) Averaging of Fourier-Haar coefficients. (Russian. Russian summary) **2001h:42043**
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**Nagy, Karoly** On the Dirichlet kernels with respect to the Walsh-Kaczmarz system. (English summary) **2001i:42052**
**Natanson, G. I.** On the norms of the Fejer-Legendre sums. (English summary)
**Nguyễn Minh Chu'o'ng** (*with* Tri, Ta Ngoc) The integral wavelet transform in $L^p(\mathbf{R}^n)$, $1 \le p \le \infty$. (English summary) **2001k:42035**
**Obermaier, Josef** *see* **Filbir, Frank et al., 2001i:42047**
**Oniani, G. G.** On the convergence of Fourier-Haar series with respect to a norm. (English summary)
**Pepić, Medo** Differentiation of functions on Vilenkin groups. (English and Macedonian summaries) **2001c:42018**
— *see also* **Avdispahić, Muharem, 2001g:42053**
**Pérez, Mario** *see* **Ciaurri, Óscar et al., 2001a:42025**
**Perrine, S. O.** (*with* Wade, William R.) Sets of uniqueness for classes of Vilenkin series. (English summary) **2001h:42044**
**Pinsky, Mark A.[1]** Endpoint convergence of Legendre series. (English summary) **2001i:42050**
**Schmeisser, Hans-Jürgen** (*with* Sickel, Winfried) Sampling theory and function spaces. (English summary) **2001i:42053**
**Semënov, E. M.** *see* **Montgomery-Smith, Stephen J., 2001h:42043** *and* **Bryskin, I. B. et al., 2001i:42046**
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**Skvortsov, Valentin** $A$-integrable martingale sequences and application to Haar series. (English summary) **2001i:42054**
**Stempak, Krzysztof** Divergent Laguerre series. (English summary) **2001g:42057**
**Syzdykova, N. K.** *see* **Bokaev, N. A., 2001k:42032**
**Toradze, T.** On the Fourier-Haar coefficients of composite function. (English summary)
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**Tri, Ta Ngoc** *see* **Nguyễn Minh Chu'o'ng, 2001k:42035**
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**Vinogradov, O. L.** The limit of Lebesgue constants of summation methods for Fourier-Legendre series defined by a multiplier function. (Russian. English and Russian summaries) **2001a:42028**
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— The maximal $(C, \alpha, \beta)$ operator of two-parameter Walsh-Fourier series. (English summary) **2001g:42059**
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**Wojtaszczyk, P.** Non-similarity of Walsh and trigonometric systems. (English summary) **2001i:42056**
**Xu, Yuan[1]** *see* **Li, Zhongkai, 2001i:42048**
**Zeng, Qingye** Pointwise estimate for the rate of convergence of Fourier-Laplace series. (English and Chinese summaries)
**Zheng, Shijun** Cesàro summability of Hardy spaces on the ring of integers in a local field. (English summary) **2001f:42045**

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**Buchholz, Artur** Operator Khintchine inequality in non-commutative probability. (English summary) **2001m:46142**
**Chaurasia, V. B. L.** (*with* Gupta, Neeti) Some finite integrals and Fourier series involving general polynomials, biorthogonal polynomials, Fox's $H$-function and the multivariable $H$-function. (English summary)
**Chen, Chang-Pao** (*with* Luor, Dah-Chin) Two-parameter Hardy-Littlewood inequality and its variants. (English summary) **2001c:42006**
**Ciaurri, Óscar** (*with* Guadalupe Hernández, José Javier; Pérez, Mario; Varona, Juan L.) Solving dual integral equations on Lebesgue spaces. (English summary) **2001j:45010**
**Dai, Feng** Localization for linear means of Fourier-Laplace series. (Chinese. English and Chinese summaries)
**Daly, James E.** (*with* Phillips, Keith L.) Multipliers and square functions for $H^p$ spaces over Vilenkin groups. (English summary) **2001f:43007**
**Entacher, Karl** Haar function based estimates of the star-discrepancy of plane digital nets. (English summary) **2001f:11128**
**Gasper, George** (*with* Trebels, Walter) Norm inequalities for fractional integrals of Laguerre and Hermite expansions. (English summary) **2001h:26010**
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**Gosper, R. Wm., Jr.** (*with* Suslov, Sergei K.) Numerical investigation of basic Fourier series. (English summary) **2001g:33034**
**Guadalupe Hernández, José Javier** *see* **Ciaurri, Óscar et al., 2001j:45010**
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**Il'inskaya, I. P.** The arithmetic of a semigroup of series of Walsh functions. (English summary) **2001a:60005**
**Kawasaki, Shu-Ji** Inversion formula for diadic wavelet representation of second-order processes. (English summary) **2001c:60056**
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**Menárguez, M. Trinidad** (*with* Pérez, Sonsoles; Soria, Fernando) The Mehler maximal function: a geometric proof of the weak type 1. (English summary) **2001i:42029**
**Naumov, O. P.** On the Poisson-Abel method for the summation of Fourier series in multiplicative systems. (Russian. English and Russian summaries) **2001k:42005**
**Novikov, I. Ya.** *see* **Gorlov, S. K. et al., 2001m:41027**
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**Pérez, Sonsoles** (*with* Soria, Fernando) Operators associated with the Ornstein-Uhlenbeck semigroup. (English summary) **2001i:42030**
— *see also* **Menárguez, M. Trinidad et al., 2001i:42029**
**Phillips, Keith L.** *see* **Daly, James E., 2001f:43007**
**Pinsky, Mark A.[1]** Fourier-Bessel expansions with general boundary conditions. (English summary) **2001g:42062**
**Plotnikov, M. G.** On the Mawhin integral and its application to Haar series. (Russian. Russian summary) **2001i:26013**
**Potapov, Mikhail Konstantinovich** On the approximation of functions, characterized by a family of nonsymmetric generalized shift operators, by algebraic polynomials. (Russian) **2001i:41025**
**Rodin, V. A.** *see* **Gorlov, S. K. et al., 2001m:41027**
**Satake, Makoto** Hardy's inequalities for Laguerre expansions. (English summary) **2001c:42014**
**Sendov, Blagovest** Uniform convergence of Fourier-Walsh-similar series. (English summary) **2001k:42039**
— Binary self-similar fractal functions. (Russian. English and Russian summaries) **2001m:28013**
**Sharapudinov, I. I.** Approximation of functions with variable smoothness by Fourier-Legendre sums. (Russian. Russian summary) **2001j:41026**
**Soria, Fernando** *see* **Menárguez, M. Trinidad et al., 2001i:42029** *and* **Pérez, Sonsoles, 2001i:42030**
**Su, Wei Yi** Calculus on fractals based upon local fields. (English summary)
**Suslov, Sergei K.** *see* **Gosper, R. Wm., Jr., 2001g:33034**
**Takeuchi, Yu** Asymptotic behavior of some polynomial sequences generated by second-order linear recurrence formulas. (Spanish. English and Spanish summaries) **2001g:41048**
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**Taşeli, H.** Accurate numerical bounds for the spectral points of singular Sturm-Liouville problems over $-\infty < x < \infty$. (English summary) **2001m:81070**
**Thiele, Christoph** The quartile operator and pointwise convergence of Walsh series. (English summary) **2001b:42007**
**Trebels, Walter** *see* **Gasper, George, 2001h:26010**
**Trimèche, Khalifa** Convolution semigroups and Calderón's formula for compact $K$-variable continuous polynomial hypergroups. (English summary) **2001m:43017**
**Varona, Juan L.** *see* **Ciaurri, Óscar et al., 2001j:45010**
**Weisz, Ferenc** The maximal Fejér operator on the spaces $H_p(\mathbf{R} \times \cdots \times \mathbf{R})$. (English and Russian summaries) **2001b:42027**
— $(C, \alpha)$ means of several-parameter Walsh- and trigonometric-Fourier series. (English summary) **2001k:42015**
**Xi, Li Feng** Hausdorff dimensions of level sets of Rademacher series. (English and French summaries) **2001i:28008**
**Xu, Yuan[1]** A note on summability of multiple Laguerre expansions. (English summary) **2001h:42039**
**Yang, H.** *see* **Tan, Eng Chong, 2001k:94090**
**Zhang, Zhenqiu** (*with* Zheng, Wei Xing) Multiplier theorems for special Hermite expansions on $\mathbf{C}^n$. (English summary) **2001h:32008**
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## 42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions

**Aldroubi, Akram** (*with* Gröchenig, Karlheinz) Beurling-Landau-type theorems for non-uniform sampling in shift invariant spline spaces. (English summary) **2001i:42057**
**Andrienko, V. A.** On the convergence almost everywhere of Riesz means of double orthogonal series. (Russian. English and Ukrainian summaries) **2001c:42020**
**Askari-Hemmat, A.** (*with* Dehghan, M. A.; Radjabalipour, M.) Generalized frames and their redundancy. (English summary) **2001m:42054**
**Atreas, N.** (*with* Karanikas, C.) Gibbs phenomenon on sampling series based on Shannon's and Meyer's wavelet analysis. (English summary) **2001g:42060**
**Avdonin, Sergei** *see* **Seidman, Thomas I. et al., 2001k:42038**
**Bao, Zheng** *see* **Shui, Penglang**
**Benedetto, John J.** Frames, sampling, and seizure prediction. (English summary) **2001a:42029**
**Bittner, Kai** Biorthogonal local trigonometric bases. (English summary) **2001j:42026**
**Bölcskei, Helmut** A necessary and sufficient condition for dual Weyl-Heisenberg frames to be compactly supported. (English summary) **2001c:42021**
**Bownik, Marcin** The structure of shift-invariant subspaces of $L^2(\mathbf{R}^n)$. (English summary) **2001k:42037**
**Bray, William O.** *see* **Pinsky, Mark A.[1], 2001i:42058**
**Casazza, Peter G.** (*with* Christensen, Ole) Approximation of the inverse frame operator. (English summary) **2001a:42030**
— (*with* Christensen, Ole; Janssen, Augustus J. E. M.) Classifying tight Weyl-Heisenberg frames. (English summary) **2001e:42036**
— (*with* Christensen, Ole) Approximation of the inverse frame operator and applications to Gabor frames. (English summary) **2001b:42037**
— The art of frame theory. (English summary) **2001f:42046**
— (*with* Christensen, Ole) Weyl-Heisenberg frames for subspaces of $L^2(\mathbf{R})$. (English summary) **2001h:42046**
**Chen, Di-Rong** Frames of periodic shift-invariant spaces. (English summary) **2001m:42055**
**Christensen, Ole** Finite-dimensional approximation of the inverse frame operator. (English summary) **2001e:42037**
— *see also* **Casazza, Peter G. et al., 2001a:42030; 2001b:42037; 2001e:42036** *and* **2001h:42046**
**Chyzak, Frédéric** (*with* Paule, Peter; Scherzer, Otmar; Schoisswohl, Armin; Zimmermann, Burkhard) The construction of orthonormal wavelets using symbolic methods and a matrix analytical approach for wavelets on the interval. (English summary)
**Czaja, Wojciech** Characterizations of Gabor systems via the Fourier transform. (English summary) **2001g:42061**
**Dehghan, M. A.** *see* **Askari-Hemmat, A. et al., 2001m:42054**
**Gabardo, Jean-Pierre** Hilbert spaces of distributions having an orthogonal basis of exponentials. (English summary) **2001e:42038**
**Garif'yanov, F. N.** Biorthogonal series generated by a dihedral group. (Russian)
**Gottlieb, David** (*with* Shu, Chi-Wang) A general theory for the resolution of the Gibbs phenomenon. **2001f:42047**
**Grigoryan, M. G.** On universality systems in $L^p$, $1 \le p < 2$. (Russian) **2001e:42039**
**Gröchenig, Karlheinz** (*with* Samarah, S.) Nonlinear approximation with local Fourier bases. (English summary) **2001f:42048**
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**He, Jian Xun[3]** An orthogonal direct sum decomposition of a cylindrical function space in $L^2(E^*_{n+1}, dx\, dy/y^{n+1})$. (Chinese. English and Chinese summaries)
**Iosevich, Alexander** (*with* Pedersen, Steen) How large are the spectral gaps? (English summary) **2001b:42038**
**Ivanov, Sergei A.** *see* **Seidman, Thomas I. et al., 2001k:42038**
**Janssen, Augustus J. E. M.** *see* **Casazza, Peter G. et al., 2001e:42036**
**Jerri, Abdul J.** Lanczos-like $\sigma$-factors for reducing the Gibbs phenomenon in general orthogonal expansions and other representations. (English summary) **2001a:42031**
**Jung, H. S.** (*with* Kwon, Kil Hyun; Lee, Dong Won[1]) Mean convergence of orthogonal series for Erdős weight. (English summary) **2001c:42022**
**Karanikas, C.** *see* **Atreas, N., 2001g:42060**
**Kirillov, Sergei Aleksandrovich** A remark on the theorems of Paley and Stein. (Russian. English and Ukrainian summaries) **2001m:42056**
**Kunen, Kenneth** *see* **Hart, Joan E., 2001h:42047**
**Kwon, Kil Hyun** *see* **Jung, H. S. et al., 2001c:42022**
**Lee, Dong Won[1]** *see* **Jung, H. S. et al., 2001c:42022**
**Li, Shidong** A theory of generalized multiresolution structure and pseudoframes of translates. (English summary) **2001m:42057**
**Lindner, Alexander M.** A universal constant for exponential Riesz sequences. (English summary) **2001c:42023**
**Marletta, Gianfranco** A Bochner-Riesz result for a cone. (English summary) **2001f:42049**

**Mauceri Del Prete, Vincenza** Estimates, decay properties, and computation of the dual function for Gabor frames. (English summary) **2001b:42039**
**McCoy, Peter A.** On the structure of multivariable sampling series. (English summary) **2001a:42032**
**Nadibaidze, G.** On the rearranged block-orthonormal and block-independent systems. (English summary)
**Nguyễn Xuân Ký** Structure properties of functions and their expansion coefficients in polynomial series. (English summary) **2001c:42024**
**Paule, Peter** *see* **Chyzak, Frédéric et al.**
**Pedersen, Steen** *see* **Iosevich, Alexander, 2001b:42038**
**Pinsky, Mark A.**[1] Fourier-Bessel expansions with general boundary conditions. (English summary) **2001g:42062**
— (*with* Bray, William O.) Eigenfunction expansions on geodesic balls and rank one symmetric spaces of compact type. (English summary) **2001i:42058**
**Plastino, Angel Luis** *see* **Rebollo-Neira, L., 2001b:42040**
**Radjabalipour, M.** *see* **Askari-Hemmat, A. et al., 2001m:42054**
**Rebollo-Neira, L.** (*with* Plastino, Angel Luis) The cross-Wigner distribution as a generator of frames on the Euclidean plane from frames on the real line. (English summary) **2001b:42040**
**Rodionov, T. V.** Orthogonalization of ortho-similar systems by extension to a wider set. (Russian. Russian summary) **2001i:42059**
**Saliani, Sandra** Exceptional sets and wavelet packets orthonormal bases. (English summary) **2001g:42063**
**Samarah, S.** *see* **Gröchenig, Karlheinz, 2001f:42048**
**Scherzer, Otmar** *see* **Chyzak, Frédéric et al.**
**Schoisswohl, Armin** *see* **Chyzak, Frédéric et al.**
**Sedletskiĭ, A. M.** On the summability and convergence of nonharmonic Fourier series. (Russian. Russian summary) **2001f:42050**
**Seidman, Thomas I.** (*with* Avdonin, Sergei; Ivanov, Sergei A.) The "window problem" for series of complex exponentials. (English summary) **2001k:42038**
**Sendov, Blagovest** Uniform convergence of Fourier-Walsh-similar series. (English summary) **2001k:42039**
**Shu, Chi-Wang** *see* **Gottlieb, David, 2001f:42047**
**Shui, Penglang** (*with* Bao, Zheng) Four-band compactly supported orthogonal symmetric interpolating scaling function. (English summary)
**Steidl, Gabriele** *see* **Trebels, Bernhard, 2001f:42052**
**Strohmer, Thomas** Rates of convergence for the approximation of dual shift-invariant systems in $l^2(\mathbf{Z})$. (English summary) **2001b:42041**
**Sun, Wenchang** (*with* Zhou, Xingwei) On the stability of multivariate trigonometric systems. (English summary) **2001k:42040**
**Terekhin, P. A.** Inequalities for the components of summable functions and their representations by elements of a system of contractions and shifts. (Russian) **2001f:42051**
**Trebels, Bernhard** (*with* Steidl, Gabriele) Riesz bounds of Wilson bases generated by $B$-splines. (English summary) **2001f:42052**
**Vinogradov, O. L.** Estimating the norms of strong Fejér sums having power $p$ with respect to orthogonal polynomials. (English summary)
**Zhou, Xingwei** *see* **Sun, Wenchang, 2001k:42040**
**Zimmermann, Burkhard** *see* **Chyzak, Frédéric et al.**

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**Al-Khaled, Kamel** Hermite interpolation on Chebyshev nodes. (English summary) **2001g:41004**
**Azoff, Edward A.** (*with* Ionascu, Eugen J.) Wandering sets for a class of Borel isomorphisms of [0, 1). (English summary) **2001j:37070**
**Benedetto, John J.** (*with* Leon, Manuel T.) The construction of multiple dyadic minimally supported frequency wavelets on $\mathbf{R}^d$. (English summary) **2001a:42034**
**Bochkarev, S. V.** Inequalities for orthogonal series and a strengthening of the theorems of Carleman and Orlicz. (Russian) **2001m:42001**
**Bownik, Marcin** A characterization of affine dual frames in $L^2(\mathbf{R}^n)$. (English summary) **2001d:42019**
**Chen, Di-Rong** On the splitting trick and wavelet frame packets. (English summary) **2001e:42046**
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**Wu, Bo Ying** (*with* Deng, Zhong Xing) Wavelet solution of the heat-conduction equation. (Chinese. English and Chinese summaries)
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**Xiong, Huilin** (*with* Zhang, Tianxu; Moon, Yiu Sang) A translation- and scale-invariant adaptive wavelet transform. (English summary) **2001k:94020**
**Xu, Ming** $H^1$ boundedness for commutators of fractional integral operators. (Chinese. English and Chinese summaries)
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**Wavelet Analysis and Multiresolution Methods** ★ Wavelet analysis and multiresolution methods. **2001c:42001**
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## 42C99 None of the above, but in this section

**Lukashenko, T. P.** Expansion systems that are similar to orthogonal systems. (Russian. English and Russian summaries)
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**Wen, Cheng Lin** *see* **Zhang, Shu Ling et al.**
**Younis, M. S.** The Fourier transforms of Lipschitz functions on the Heisenberg group. (English summary)
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**Zhang, Shu Ling** (*with* Wen, Cheng Lin; Li, Yue Sheng) Study of system in multiscale random signal processing using $B$-spline function. (Chinese. English and Chinese summaries)

# 43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

## 43–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 43–01

**Duistermaat, J. J.** (*with* Kolk, J. A. C.) ★ Lie groups. (English summary) **2001j:22008**
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## 43–03 Historical (must also be assigned at least one classification number from Section 01)

**Galeev, È. M.** (*with* Tikhomirov, Vladimir M.) The work of S. B. Stechkin on optimal methods of approximation. (Russian. English and Russian summaries)
**(Stechkin, Sergei Borisovich)** *see* **Galeev, È. M.**
**Tikhomirov, Vladimir M.** *see* **Galeev, È. M.**

## 43–06 Proceedings, conferences, collections, etc.

**(Picardello, Massimo A.)** *see* **Harmonic analysis and integral geometry, 2001f:43001**

Items listed otherwise than by author

**Harmonic analysis and integral geometry** ★ Harmonic analysis and integral geometry. **2001f:43001**
**Safi** ★ Harmonic analysis and integral geometry. **2001f:43001**
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## 43A05 Measures on groups and semigroups, etc.

**Banaszczyk, W.** The Lévy continuity theorem for nuclear groups. (English summary) **2001c:43001**
**Blei, R.** (*with* Caggiano, J.) Projective boundedness and convolution of Fréchet measures. (English summary) **2001b:43001**
**Caggiano, J.** *see* **Blei, R., 2001b:43001**
**Chu, Cho-Ho** (*with* Leung, Chi-Wai) Harmonic functions on homogeneous spaces. (English summary) **2001b:43002**
**Corduneanu, Silvia-Otilia** Pseudo almost periodic measures on locally compact abelian groups. (English summary) **2001m:43001**
**He, Yuan Jiang** *see* **Song, Shao Qiang**
**Leung, Chi-Wai** *see* **Chu, Cho-Ho, 2001b:43002**
**Lyudkovskiĭ, S. V.** Quasi-invariant measures on non-Archimedean groups and semigroups of loops and paths, their representations. I, II. (English summary) **2001m:43002**
**Neuenschwander, Daniel** $s$-stable semigroups on simply connected step 2-nilpotent Lie groups. (English summary) **2001i:43001**
**Raja, C. Robinson Edward** Weak mixing and unitary representation problem. (English summary) **2001j:43001**
**Song, Shao Qiang** (*with* He, Yuan Jiang) The Hun semigroup structure of counting measures on a non-separable space. (Chinese. English and Chinese summaries)
**Żuk, Andrzej** A generalized Følner condition and the norms of random walk operators on groups. (English summary) **2001m:43003**

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**Bingham, Michael S.** (*with* Heyer, Herbert) On diffusion hemigroups of probability measures on an abelian locally compact group. (English summary) **2001g:60012**
**Cuny, Christophe** Fonctions harmoniques bornées sur certains groupes de Lie. (French summary) [Bounded harmonic functions on certain Lie groups] **2001i:31008**
**Denker, Manfred** (*with* Koch, Susanne) A Poisson formula for harmonic functions on the Sierpiński gasket. (English summary) **2001i:60113**
**Grinnell, Raymond J.** Two real-valued functions associated with convolutions with measures. (English summary) **2001m:43009**
**Hazod, Wilfried** (*with* Scheffler, Hans-Peter) Strongly $\tau$-decomposable and selfdecomposable laws on simply connected nilpotent Lie groups. (English summary) **2001h:60009**
**Heyer, Herbert** (*with* Pap, Gyula) Convergence of evolution operator families and its applications to functional limit theorems. (English summary) **2001m:60017**
— *see also* **Bingham, Michael S., 2001g:60012**
**Koch, Susanne** *see* **Denker, Manfred, 2001i:60113**
**Lyudkovskiĭ, S. V.** Quasi-invariant measures on a group of diffeomorphisms of an infinite-dimensional real manifold and induced irreducible unitary representations. (English summary) **2001f:58026**
**McCrudden, M.** (*with* Walker, Seth) Embedding infinitely divisible probabilities on subsemigroups of Lie groups. (English summary) **2001k:60005**
**Mukhin, Vladimir V.** Modular functions of locally compact semigroups, and unimodular semigroups. (Russian. English and Russian summaries) **2001f:28017**
**Nadkarni, M. G.** ★ Spectral theory of dynamical systems. (English summary) **2001d:37001**
**Neuenschwander, Daniel** Unimodality of stable Gaussian laws on the Heisenberg group. (English summary) **2001a:60006**
**Pap, Gyula** *see* **Heyer, Herbert, 2001m:60017**
**Raja, C. Robinson Edward** Stable probability measures on $p$-adic Lie groups. (English summary) **2001f:60008**
**Scheffler, Hans-Peter** *see* **Hazod, Wilfried, 2001h:60009**
**Székelyhidi, László** On mean periodic functions. (English summary) **2001c:39040**
**Thangavelu, S.** Local ergodic theorems for $K$-spherical averages on the Heisenberg group. (English summary) **2001i:42031**
**Walker, Seth** *see* **McCrudden, M., 2001k:60005**

## 43A07 Means on groups, semigroups, etc.; amenable groups

**Béguin, Cédric** (*with* Ceccherini-Silberstein, Tullio G.) Formes faibles de moyennabilité pour les groupes à un relateur. (English and French summaries) [Weak forms of amenability for one-relator groups] **2001f:43002**
**Ceccherini-Silberstein, Tullio G.** *see* **Béguin, Cédric, 2001f:43002** *and* **de la Harpe, Pierre et al., 2001h:43001**
**Esslamzadeh, G. H.** *see* **Riazi, A., 2001m:43006**
**Grigorchuk, Rostislav I.** *see* **de la Harpe, Pierre et al., 2001h:43001**
**de la Harpe, Pierre** (*with* Grigorchuk, Rostislav I.; Ceccherini-Silberstein, Tullio G.) Amenability and paradoxical decompositions for pseudogroups and discrete metric spaces. (Russian. Russian summary) **2001h:43001**
**Khadem-Maboudi, A. A.** (*with* Pourabdollah, M. A.) Means, homomorphisms, and compactifications of weighted semitopological semigroups. (English summary) **2001m:43004**
**Myasnikov, A. G.**[1] Weak amenability components of $L_1(G)$-modules, amenable groups, and an ergodic theorem. (Russian. Russian summary) **2001m:43005**
**Pemantle, Robin** (*with* Peres, Yuval) Nonamenable products are not treeable. (English summary) **2001j:43002**
**Peres, Yuval** *see* **Pemantle, Robin, 2001j:43002**
**Pourabdollah, M. A.** *see* **Khadem-Maboudi, A. A., 2001m:43004**
**Rawat, Rama** (*with* Sitaram, A.) Injectivity sets for spherical means on $\mathbf{R}^n$ and on symmetric spaces. (English summary) **2001f:43003**
**Riazi, A.** (*with* Esslamzadeh, G. H.) Continuous constant functions on components and amenability. (English summary) **2001m:43006**
**Sitaram, A.** *see* **Rawat, Rama, 2001f:43003**

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**Anantharaman-Delaroche, C.** (*with* Renault, Jean N.) ★ Amenable groupoids. (English summary) **2001m:22005**
**Filbir, Frank** (*with* Lasser, Rupert) Reiter's condition $P_2$ and the Plancherel measure for hypergroups. (English summary) **2001c:43008**
**(Germain, E.)** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Granirer, Edmond E.** Erratum to: "On the set of topologically invariant means on an algebra of convolution operators on $L^p(G)$" [Proc. Amer. Math. Soc. **124** (1996), no. 11, 3399–3406; MR 97a:43004]. **2001k:60100**
**Guivarc'h, Yves** Marches aléatoires sur les groupes. (French summary) [Random walks on groups] **2001k:60100**
**Lasser, Rupert** *see* **Filbir, Frank, 2001c:43008**
**Linnell, Peter A.** Left ordered amenable and locally indicable groups. (English summary) **2001c:20092**
**Renault, Jean N.** Cuntz-like algebras. (English summary) **2001g:46130**
— *see also* **Anantharaman-Delaroche, C., 2001m:22005**
**Shtern, A. I.** Rigidity and approximation of quasirepresentations of amenable groups. (Russian. Russian summary) **2001b:22008**
**(Skandalis, Georges)** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Tabor, Jacek** Monomial selections of set-valued functions. (English summary) **2001c:39054**

## 43A10 Measure algebras on groups, semigroups, etc.

**Medgalchi, A. R.** (*with* Modarres, S. M. S.) Amenability of the second dual of hypergroup algebras. (English summary) **2001g:43001**
**Modarres, S. M. S.** *see* **Medgalchi, A. R., 2001g:43001**
**Nasr-Isfahani, R.** Factorization in some ideals of Lau algebras with applications to semigroup algebras. (English summary) **2001i:43002**
**Olofsson, Anders** Absolutely continuous measures on non quasi-analytic curves with independent powers. (English summary) **2001i:43003**

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**Gebuhrer, Marc-Olivier** (*with* Schwartz, Alan L.) Harmonic analysis on compact commutative hypergroups: the role of the maximum subgroup. (English summary) **2001k:43002**
**Lashkarizadeh Bami, M.** A proof of Bochner-Weil's theorem from its discrete form on weighted foundation semigroups. (Persian summary) **2001h:43005**
**Nasr-Isfahani, R.** Representations and positive definite functions on hypergroups. (English summary) **2001m:43018**
**Nikol'skiĭ, Nikolai K.** The phenomenon of the invisible spectrum and the problem of efficient inversions. **2001d:46078**
**Rogozin, B. A.** (*with* Sgibnev, M. S.) Strongly subexponential distributions, and Banach algebras of measures. (Russian. Russian summary) **2001j:60029**
**Schwartz, Alan L.** *see* **Gebuhrer, Marc-Olivier, 2001k:43002**
**Sgibnev, M. S.** *see* **Rogozin, B. A., 2001j:60029**
**Ülger, Ali** Central elements of $A^{**}$ for certain Banach algebras $A$ without bounded approximate identities. (English summary) **2001b:46082**

## 43A15 $L^p$-spaces and other function spaces on groups, semigroups, etc.

**Andersson, Mats Erik** Two examples of subspaces in $L^{2l}$ spanned by characters of finite order. (English summary) **2001k:43001**
**Atanasi, Laura** Radon transforms on $\widetilde{A}_n$-buildings. (English summary) **2001b:43003**
**Chatterji, Srishti D.** Remarks on the Hausdorff-Young inequality. **2001m:43007**
**Clarkson, Eric** Angular channels in a multidimensional wavelet transform. (English summary) **2001e:43001**
**Domar, Yngve** Operators commuting with translations for certain Hilbert spaces of functions on the discrete real line. **2001h:43002**
**Duyar, Cenap** (*with* Seferoğlu, Heybet) Evaluation of the distance to the space of multipliers in integrable function spaces. (English summary) **2001g:43002**

**Faraut, Jacques** Espaces de Hardy en analyse harmonique non commutative. [Hardy spaces in noncommutative harmonic analysis] **2001e:43002**
**Granirer, Edmond E.** Erratum to: "On the set of topologically invariant means on an algebra of convolution operators on $L^p(G)$" [Proc. Amer. Math. Soc. **124** (1996), no. 11, 3399–3406; MR 97a:43004]. **Inoue, Jyunji** (*with* Takahasi, Sin-Ei) Constructions of bounded weak approximate identities for Segal algebras on LCA groups. (English summary) **2001i:43004**
**Mustafayev, H. S.** Segal algebra as an ideal in its second dual space. (English summary) **2001j:43003**
**Nilsson, Andreas** $L^p$-$L^q$ multipliers on non-compact Riemannian symmetric spaces. (English summary) **2001b:43004**
**Sağir, Birsen** On functions with Fourier transforms in $W(B, Y)$. (English summary) **2001j:43004**
**Seferoğlu, Heybet** *see* **Duyar, Cenap, 2001g:43002**
**Takahasi, Sin-Ei** *see* **Inoue, Jyunji, 2001i:43004**
**Yang, Dachun** Applications of weighted weak Herz-type spaces over Vilenkin groups. (English summary) **2001j:43005**
**Zhu, Yue-ping** Multipliers on weighted Herz spaces over locally compact Vilenkin groups. (English and Chinese summaries) **2001d:43001**

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**Bloom, Walter R.** (*with* Xu, Zengfu) Fourier multipliers for $L^p$ on Chébli-Trimèche hypergroups. **2001c:43007**
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**Fan, Da Shan** (*with* Yang, Dachun) Herz-type Hardy spaces on Vilenkin groups and their applications. (English summary) **2001i:43013**
**Fan, Xian Ling** (*with* Zhao, Yuanzhang; Zhao, Dun) Compact imbedding theorems with symmetry of Strauss-Lions type for the space $W^{1,p(x)}(\Omega)$. (English summary) **2001m:46073**
**Gaudry, G. I.** (*with* Jefferies, B. R. F.; Ricker, Werner J.) Vector-valued multipliers: convolution with operator-valued measures. **2001i:43008**
**Greshnov, A. V.** Extension of differentiable functions beyond the boundary of the domain on Carnot groups [MR 99c:46027]. (Russian. Russian summary) (*see* **2001c:00013**)
**Jarosz, Krzysztof** Uniqueness of translation invariant norms. (English summary) **2001e:46092**
**Jefferies, B. R. F.** *see* **Gaudry, G. I. et al., 2001i:43008**
**Karapetyants, A. N.** (*with* Ramírez de Arellano, Enrique) On the inversion of potential type operators with kernels having singularities on a sphere. (English summary) **2001d:42007**
**Koizumi, Shin** *see* **Eguchi, Masaaki et al., 2001f:43005**
**Kumahara, Keisaku** *see* **Eguchi, Masaaki et al., 2001f:43005**
**Mourou, Mohamed A.** (*with* Trimèche, Khalifa) Calderon's reproducing formula associated with a singular differential operator on the half line. (English summary) **2001k:42021**
**Öztop, Serap** Multipliers on some weighted $L^p$-spaces. (English summary) **2001i:43009**
**Ramírez de Arellano, Enrique** *see* **Karapetyants, A. N., 2001d:42007**
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**Shalom, Yehuda** Explicit Kazhdan constants for representations of semisimple and arithmetic groups. (English and French summaries) **2001i:22019**
**Trimèche, Khalifa** *see* **Mourou, Mohamed A., 2001k:42021**
**Xu, Zengfu** *see* **Bloom, Walter R., 2001c:43007**
**Yang, Dachun** *see* **Fan, Da Shan, 2001i:43013**
**Zhao, Dun** *see* **Fan, Xian Ling et al., 2001m:46073**
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**Zobin, Nahum** Extension of smooth functions from finitely connected planar domains. (English summary) **2001d:46048**

## 43A17 Analysis on ordered groups, $H^p$-theory

**Helson, Henry** (*with* Tanaka, Jun-Ichi) Singular cocycles and the generator problem. (English summary) **2001j:43006**
**Kelly, Brian P.** A dimension-free weak-type estimate for operators on UMD-valued functions. (English summary) **2001i:43005**
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## 43A20 $L^1$-algebras on groups, semigroups, etc.

**Esslamzadeh, G. H.** Duals and topological center of a class of matrix algebras with applications. (English summary) **2001b:43005**
**Kaniuth, Eberhard** Ideals with bounded approximate units in $L^1$-algebras of locally compact groups. (English summary) **2001b:43006**
**Kepert, Andrew G.** Uniformities and complemented group algebra ideals. (English summary) **2001i:43006**
**Lashkarizadeh Bami, M.** The topological centers of $LUC(S)^*$ and $M_a(S)^{**}$ of certain foundation semigroups. (English summary) **2001i:43007**
**Pyartli, S. A.** Locally convex group algebras over compact groups. (Russian. English and Russian summaries)

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**Crabb, M. J.** (*with* McGregor, C. M.) Faithful, irreducible $*$-representations for group algebras of free products. (English summary) **2001f:20008**
**Duyar, Cenap** (*with* Seferoğlu, Heybet) Evaluation of the distance to the space of multipliers in integrable function spaces. (English summary) **2001g:43002**
**Galindo, Jorge** Relations between locally compact abelian groups with isomorphic group algebras. (English summary) **2001f:22012**
**Gourdeau, Frédéric** (*with* White, Michael C.) Vanishing of the third simplicial cohomology group of $l^1(\mathbf{Z}_+)$. (English summary) **2001m:46163**
**Kisil, Vladimir V.** Umbral calculus and cancellative semigroup algebras. (English summary) **2001g:05017**
**McGregor, C. M.** *see* **Crabb, M. J., 2001f:20008**
**Modarres, S. M. S.** The topological center and amenability of a Banach algebra with a predual. (English summary) **2001b:46078**
**Pourabbas, Abdolrasoul** Second cohomology of Beurling algebras. **2001e:46126**
**Seferoğlu, Heybet** *see* **Duyar, Cenap, 2001g:43002**
**Villena Muñoz, Armando R.** Elements in a commutative Banach algebra determining the norm topology. (English summary) **2001g:46114**
**White, Michael C.** *see* **Gourdeau, Frédéric, 2001m:46163**

## 43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

**Gandulfo, R. O.** (*with* Gigante, Giacomo) Some multiplier theorems on the sphere. (English summary) **2001m:43008**
**Gaudry, G. I.** (*with* Jefferies, B. R. F.; Ricker, Werner J.) Vector-valued multipliers: convolution with operator-valued measures. **2001i:43008**
**Gigante, Giacomo** *see* **Gandulfo, R. O., 2001m:43008**
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**Harcharras, Asma** Fourier analysis, Schur multipliers on $S^p$ and non-commutative $\Lambda(p)$-sets. (English summary) **2001f:43004**
**Jefferies, B. R. F.** *see* **Gaudry, G. I. et al., 2001i:43008**
**Öztop, Serap** Multipliers on some weighted $L^p$-spaces. (English summary) **2001i:43009**
— Multipliers of Banach valued weighted function spaces. (English summary) **2001m:43010**
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**Bloom, Walter R.** (*with* Xu, Zengfu) Fourier multipliers for $L^p$ on Chébli-Trimèche hypergroups. **2001c:43007**
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**Duyar, Cenap** (*with* Seferoğlu, Heybet) Evaluation of the distance to the space of multipliers in integrable function spaces. (English summary) **2001g:43002**
**Hatori, Osamu** Subalgebras of commutative Banach algebras and Fourier multipliers with natural spectra. (English summary) **2001d:46081**
**Jarosz, Krzysztof** Uniqueness of translation invariant norms. (English summary) **2001e:46092**
**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Miana, Pedro J.** Spectral theory for representations. (English summary) **2001h:46089**
**Neumann, Michael M.** *see* **Laursen, Kjeld B., 2001k:47002**
**Phillips, Keith L.** *see* **Daly, James E., 2001f:43007**
**Renault, Jean N.** Cuntz-like algebras. (English summary) **2001g:46130**
**Sağir, Birsen** On functions with Fourier transforms in $W(B, Y)$. (English summary) **2001j:43004**
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**Veneruso, Alessandro** Hörmander multipliers on the Heisenberg group. (English summary) **2001j:43010**
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**Zhu, Yue-ping** Multipliers on weighted Herz spaces over locally compact Vilenkin groups. (English and Chinese summaries) **2001d:43001**

## 43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

**Caggiano, J.** Interpolation sets for Fréchet measures. (English summary) **2001b:43007**
**Chu, Cho-Ho** (*with* Hilberdink, Titus; Howroyd, J. D.) A matrix-valued Choquet-Deny theorem. (English summary) **2001j:43007**
**Hilberdink, Titus** *see* **Chu, Cho-Ho et al., 2001j:43007**
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**Bingham, Michael S.** (*with* Heyer, Herbert) On diffusion hemigroups of probability measures on an abelian locally compact group. (English summary) **2001g:60012**
**Carnal, Henri** (*with* Fel'dman, G. M.) On a property of entire characteristic functions of finite order with real zeros. (Russian) **2001d:30039**
**Chatterji, Srishti D.** Remarks on the Hausdorff-Young inequality. **2001m:43007**
**Fel'dman, G. M.** *see* **Carnal, Henri, 2001d:30039**
**Heyer, Herbert** *see* **Bingham, Michael S., 2001g:60012**
**Il'inskaya, I. P.** The arithmetic of a semigroup of series of Walsh functions. (English summary) **2001a:60005**
**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Neumann, Michael M.** *see* **Laursen, Kjeld B., 2001k:47002**
**Nikol'skiĭ, Nikolai K.** In search of the invisible spectrum. **2001a:46053**
**Sağir, Birsen** On functions with Fourier transforms in $W(B, Y)$. (English summary) **2001j:43004**
**Schipp, Ferenc** (*with* Wade, William R.) Mellin transforms on binary fields. (English summary) **2001f:11196**
**Schlottmann, Martin** Generalized model sets and dynamical systems. (English summary) **2001k:52035**

**Wade, William R.** *see* **Schipp, Ferenc, 2001f:11196**

## 43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

**Eguchi, Masaaki** (*with* Koizumi, Shin; Kumahara, Keisaku) An $L^p$ version of the Hardy theorem for motion groups. (English summary) **2001f:43005**
**Koizumi, Shin** *see* **Eguchi, Masaaki et al., 2001f:43005**
**Kumahara, Keisaku** *see* **Eguchi, Masaaki et al., 2001f:43005**
**Thangavelu, S.** An analogue of Hardy's theorem for the Heisenberg group. (English summary) **2001m:43011**

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**Chirikjian, Gregory S.** *see* **Kyatkin, Alexander B., 2001g:65177**
**Cowling, Michael** (*with* Sitaram, A.; Sundari, M.) Hardy's uncertainty principle on semisimple groups. (English summary) **2001c:22007**
**Hebisch, Waldemar** Spectral multipliers on metabelian groups. **2001m:22016**
**Kaniuth, Eberhard** (*with* Lau, Anthony T.) A separation property of positive definite functions on locally compact groups and applications to Fourier algebras. (English summary) **2001m:43012**
**Kyatkin, Alexander B.** (*with* Chirikjian, Gregory S.) Algorithms for fast convolutions on motion groups. (English summary) **2001g:65177**
**Lau, Anthony T.** *see* **Kaniuth, Eberhard, 2001m:43012**
**Sitaram, A.** *see* **Cowling, Michael et al., 2001c:22007**
**Sundari, M.** *see* **Cowling, Michael et al., 2001c:22007**

## 43A32 Other transforms and operators of Fourier type

**Ben Cheikh, Youssèf** Generalized Paley-Wiener theorem and generalized convolution associated with the differential operator $D_\gamma^n$ in the complex domain. (English summary) **2001e:43003**
**Oty, Karla J.** Fourier-Stieltjes algebras of $r$-discrete groupoids. (English summary) **2001a:43001**
**Zhu, Yue-ping** Multipliers on Herz type Hardy spaces over local fields. (English summary) **2001h:43003**

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**Bloom, Walter R.** (*with* Xu, Zengfu) Fourier multipliers for $L^p$ on Chébli-Trimèche hypergroups. **2001c:43007**
**Ebata, Mitsuhiko** (*with* Eguchi, Masaaki; Koizumi, Shin; Kumahara, Keisaku) A generalization of the Hardy theorem to semisimple Lie groups. **2001c:22008**
**Eguchi, Masaaki** *see* **Ebata, Mitsuhiko et al., 2001c:22008**
**Gérardin, Paul** (*with* Lai, K. F.) Asymptotic behaviour of eigenfunctions on semi-homogeneous tree. (English summary) **2001m:31020**
**Jorgensen, Palle E. T.** (*with* Ólafsson, Gestur) Unitary representations and Osterwalder-Schrader duality. (English summary) **2001f:22036**
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**Kochubei, A. N.** Analysis and probability over infinite extensions of a local field. (English summary) **2001e:60016**
**Koizumi, Shin** *see* **Ebata, Mitsuhiko et al., 2001c:22008**
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**Lai, K. F.** *see* **Gérardin, Paul, 2001m:31020**
**Luo, Shun-Long** Polar decomposition and isometric integral transforms. (English summary) **2001f:81073**
**Ólafsson, Gestur** *see* **Jorgensen, Palle E. T., 2001f:22036**
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**Tan, Eng Chong** (*with* Yang, H.) Optimization of fixed-polarity Reed-Muller circuits using dual-polarity property. (English summary) **2001k:94090**
**Wilczok, Elke** New uncertainty principles for the continuous Gabor transform and the continuous wavelet transform. (English summary) **2001g:42071**
**Xu, Zengfu** *see* **Bloom, Walter R., 2001c:43007**
**Yang, H.** *see* **Tan, Eng Chong, 2001k:94090**

## 43A35 Positive definite functions on groups, semigroups, etc.

**Bisgaard, Torben Maack** On perfect involution groups. **2001g:43003**
— If $S \times T$ is semiperfect, is $S$ or $T$ perfect? (English summary) **2001i:43010**
— On the growth of positive definite double sequences which are not moment sequences. (English summary) **2001c:43002**
— Bochner's theorem for semigroups: a counterexample. **2001j:43008**
**Bruzual, Ramón** (*with* Domínguez, Marisela) Extensions of operator valued positive definite functions on an interval of $\mathbf{Z}^2$ with the lexicographic order. (English summary) **2001i:43011**
**Domínguez, Marisela** *see* **Bruzual, Ramón, 2001i:43011**
**Furuta, Koji** (*with* Sakakibara, Nobuhisa) Operator moment problems on abelian $*$-semigroups. (English summary) **2001h:43004**
**Gneiting, Tilmann** Decomposition theorems for $\alpha$-symmetric positive definite functions. (English summary) **2001g:43004**
**Kaniuth, Eberhard** (*with* Lau, Anthony T.) A separation property of positive definite functions on locally compact groups and applications to Fourier algebras. (English summary) **2001m:43012**
**Lashkarizadeh Bami, M.** A proof of Bochner-Weil's theorem from its discrete form on weighted foundation semigroups. (Persian summary) **2001h:43005**
**Lau, Anthony T.** *see* **Kaniuth, Eberhard, 2001m:43012**
**Nasr-Isfahani, R.** Bochner theorems for commutative locally compact hypergroups. (English summary)
**Nishio, Katsuyoshi** (*with* Sakakibara, Nobuhisa) Perfectness of conelike $*$-semigroups in $\mathbf{Q}^k$. (English summary) **2001g:43005**
**Sakakibara, Nobuhisa** *see* **Nishio, Katsuyoshi, 2001g:43005** *and* **Furuta, Koji, 2001h:43004**
**Song, Hai Zhou** Positive-definite functions from a locally compact abelian group to a $C^*$-algebra. (Chinese. English and Chinese summaries) **2001g:43006**

Items with secondary classifications in 43A35

**Aussenhofer, L.** Contributions to the duality theory of abelian topological groups and to the theory of nuclear groups. (English summary) **2001c:43003**
**Bisgaard, Torben Maack** On the topology induced by mixtures of exponentials. (English summary) **2001g:46003**
— On the positive definiteness of $n \mapsto e^{ipn^\alpha}$. (English summary) **2001g:42017**
**Bruzual, Ramón** (*with* Domínguez, Marisela) On the local operator commutation relations and extensions of locally defined positive definite functions on the Heisenberg group. (English summary) **2001k:47056**
**Domínguez, Marisela** *see* **Bruzual, Ramón, 2001k:47056**
**Dooley, Anthony H.** (*with* Zhang, Genkai) Spherical functions on harmonic extensions of $H$-type groups. (English summary) **2001g:22015**
**Nasr-Isfahani, R.** Representations and positive definite functions on hypergroups. (English summary) **2001m:43018**
**Neeb, Karl-Hermann** ★ Holomorphy and convexity in Lie theory. **2001j:32020**
**Ozawa, Narutaka** Amenable actions and exactness for discrete groups. (English and French summaries) **2001g:22007**
**Renault, Jean N.** Cuntz-like algebras. (English summary) **2001g:46130**
**Sasvári, Zoltán** On the number of negative squares of certain functions. (English summary) **2001f:47064**
**Zhang, Genkai** *see* **Dooley, Anthony H., 2001g:22015**

## 43A40 Character groups and dual objects

**Aussenhofer, L.** Contributions to the duality theory of abelian topological groups and to the theory of nuclear groups. (English summary) **2001c:43003**
**Hernández, Salvador** (*with* Uspenskii, Vladimir V.) Pontryagin duality for spaces of continuous functions. (English summary) **2001c:43004**
**Higasikawa, Masasi** Finite images and characters of topological groups. (English summary) **2001f:43006**
**Uspenskii, Vladimir V.** *see* **Hernández, Salvador, 2001c:43004**

Items with secondary classifications in 43A40

**Barr, Michael** $*$-autonomous categories: once more around the track. (English summary) **2001a:18006**
**Kepert, Andrew G.** Uniformities and complemented group algebra ideals. (English summary) **2001i:43006**

## 43A45 Spectral synthesis on groups, semigroups, etc.

**Graham, Colin C.** Arens regularity and weak sequential completeness for quotients of the Fourier algebra. (English summary) **2001m:43013**
**Pedersen, Thomas Vils** Some properties of the Pisier algebra. (English summary) **2001b:43008**

Items with secondary classifications in 43A45

**Andersson, Mats Erik** Two examples of subspaces in $L^{2l}$ spanned by characters of finite order. (English summary) **2001k:43001**

## 43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

**Eliaš, Peter** A hierarchy of thin sets related to the boundedness of trigonometric series. (English summary) **2001g:43007**
**Hare, Kathryn E.** Random weighted Sidon sets. (English summary) **2001m:43014**

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**Andersson, Mats Erik** Two examples of subspaces in $L^{2l}$ spanned by characters of finite order. (English summary) **2001k:43001**
**Caggiano, J.** Interpolation sets for Fréchet measures. (English summary) **2001b:43007**
**Godefroy, Gilles** (*with* Kalton, N. J.; Li, Daniel) Operators between subspaces and quotients of $L^1$. (English summary) **2001e:46025**
**Graham, Colin C.** Arens regularity and weak sequential completeness for quotients of the Fourier algebra. (English summary) **2001m:43013**
**Granirer, Edmond E.** Erratum to: "On the set of topologically invariant means on an algebra of convolution operators on $L^p(G)$" [Proc. Amer. Math. Soc. **124** (1996), no. 11, 3399–3406; MR 97a:43004]. **2001m:43012**
**Harcharras, Asma** Fourier analysis, Schur multipliers on $S^p$ and non-commutative $\Lambda(p)$-sets. (English summary) **2001f:43004**
**Kalton, N. J.** *see* **Godefroy, Gilles et al., 2001e:46025**
**Kaniuth, Eberhard** (*with* Lau, Anthony T.) A separation property of positive definite functions on locally compact groups and applications to Fourier algebras. (English summary) **2001m:43012**
**Kepert, Andrew G.** Uniformities and complemented group algebra ideals. (English summary) **2001i:43006**
**Lau, Anthony T.** *see* **Kaniuth, Eberhard, 2001m:43012**
**Li, Daniel** *see* **Godefroy, Gilles et al., 2001e:46025**
**Mockenhaupt, Gerd** Salem sets and restriction properties of Fourier transforms. **2001m:42026**
**Neuwirth, Stefan** Two random constructions inside lacunary sets. **2001c:42007**

## 43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Items with secondary classifications in 43A55

**Avdispahić, Muharem** (*with* Pepić, Medo) On summability in $L^p$-norm on general Vilenkin groups. (English summary) **2001g:42053**

**Benson, Chal** (*with* Jenkins, Joe; Ratcliff, Gail) The orbit method and Gelfand pairs, associated with nilpotent Lie groups. (English summary) **2001d:22005**

**Jenkins, Joe** *see* **Benson, Chal et al., 2001d:22005**

**Natarajan, P. N.** (*with* Srinivasan, Vaithinathsamy) Convolution of generalized Nörlund methods in non-Archimedean fields. (English summary) **2001e:40011**

**Pepić, Medo** *see* **Avdispahić, Muharem, 2001g:42053**

**Ratcliff, Gail** *see* **Benson, Chal et al., 2001d:22005**

**Simon, Péter** (*with* Weisz, Ferenc) Strong convergence theorems for two parameter Vilenkin-Fourier series. (English summary) **2001c:42019**

**Srinivasan, Vaithinathsamy** *see* **Natarajan, P. N., 2001e:40011**

**Weisz, Ferenc** *see* **Simon, Péter, 2001c:42019**

## 43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

**Corduneanu, Silvia-Otilia** On some convergent nets of almost periodic measures. (English summary) (*see* **2001k:00021a**)

**Miri, M. R.** (*with* Pourabdollah, M. A.) Recapturing semigroup compactifications of a group from those of its closed normal subgroups. (English summary) **2001c:43005**

**Pennequin, Denis** Existence of almost periodic solutions of discrete time equations. (English summary) **2001m:43015**

**Pourabdollah, M. A.** *see* **Miri, M. R., 2001c:43005**

Items with secondary classifications in 43A60

**Corduneanu, Silvia-Otilia** Pseudo almost periodic measures on locally compact abelian groups. (English summary) **2001m:43001**

**Jalilian, A.** (*with* Pourabdollah, M. A.) Universal compactifications of transformation semigroups. (English summary) **2001m:54038**

**Khadem-Maboudi, A. A.** (*with* Pourabdollah, M. A.) Means, homomorphisms, and compactifications of weighted semitopological semigroups. (English summary) **2001m:43004**

**Pourabdollah, M. A.** *see* **Khadem-Maboudi, A. A., 2001m:43004** *and* **Jalilian, A., 2001m:54038**

**Xu, Qin²** Representations and compactifications of locally compact groups. (English summary) **2001h:22004**

## 43A62 Hypergroups

**Bloom, Walter R.** (*with* Xu, Zengfu) Pseudo differential operators on local Hardy spaces on Chébli-Trimèche hypergroups. (English summary) **2001c:43006**

— (*with* Xu, Zengfu) Fourier multipliers for $L^p$ on Chébli-Trimèche hypergroups. **2001c:43007**

**Filbir, Frank** Existence of approximate identities in maximal ideals of hypergroup-algebras. (English summary) **2001m:43016**

— (*with* Lasser, Rupert) Reiter's condition $P_2$ and the Plancherel measure for hypergroups. (English summary) **2001c:43008**

**Gebuhrer, Marc-Olivier** (*with* Schwartz, Alan L.) Harmonic analysis on compact commutative hypergroups: the role of the maximum subgroup. (English summary) **2001k:43002**

**Lasser, Rupert** *see* **Filbir, Frank, 2001c:43008**

**Medgalchi, A. R.** Weighted hypergroup algebras and their second duals. (English and Farsi summaries) **2001j:43009**

**Mokni, K.** (*with* Trimèche, Khalifa) Generalized Laplacians and Levy-Khintchine formula for $k$-variable continuous polynomial hypergroups. (English summary) **2001b:43009**

**Pap, Gyula** (*with* Voit, Michael) Rates of convergence for central limit theorems for random walks related with the Hankel transform. **2001g:43008**

**Pavel, Liliana** Positive definite measures on hypergroups. (English summary) **2001i:43012**

**Schwartz, Alan L.** *see* **Gebuhrer, Marc-Olivier, 2001k:43002**

**Trimèche, Khalifa** Asymptotic expansions and linear wavelet packets on certain hypergroups. (English summary) **2001h:43006**

— Convolution semigroups and Calderón's formula for compact $K$-variable continuous polynomial hypergroups. (English summary) **2001m:43017**

— *see also* **Mokni, K., 2001b:43009**

**Voit, Michael** *see* **Pap, Gyula, 2001g:43008**

**Xu, Zengfu** *see* **Bloom, Walter R., 2001c:43006** *and* **2001c:43007**

Items with secondary classifications in 43A62

**Barbulyak, L. V.** Biorthogonal systems of Appell polynomials for smooth measures on $\mathbf{R}_+$. (Ukrainian. Ukrainian summary) **2001h:46069**

**Berezanskiĭ, Yuriĭ Makarovich** (*with* Kondrat'ev, Yu. G.) Biorthogonal systems in hypergroups: an extension of non-Gaussian analysis. (English summary) **2001h:60120**

**Betancor, Jorge J.** Sobolev spaces associated to Bessel operators and Hankel translations commuting operators. (English summary) **2001e:46052**

**Filbir, Frank** (*with* Lasser, Rupert; Obermaier, Josef) Summation kernels for orthogonal polynomial systems. (English summary) **2001i:42047**

**Heyer, Herbert** The covariance distribution of a generalized random field over a commutative hypergroup. **2001h:60091**

**Jaafar, L.** (*with* Trimèche, Khalifa) The inverse problem of the generalized Radon transform and its dual by generalized wavelets. (English summary) **2001h:44009**

**Kalyuzhnyi, A. A.** Algebras with nonquadratic relations associated with Bessel hypergroups. (English summary) **2001d:47120**

**Kondrat'ev, Yu. G.** *see* **Berezanskiĭ, Yuriĭ Makarovich, 2001h:60120**

**Krieg, Aloys** Hecke algebras and hypergroups. (English summary) **2001f:20010**

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## 43A90 Spherical functions [see also 22E45, 22E46, 33C65]

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**Kisil, Vladimir V.** Wavelets in Banach spaces. (English summary) **2001c:43013**

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# 44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

## 44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

**Petrushev, Pencho** Nonlinear approximation from dictionaries: some open problems: research problems 2001-1.

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**(Przeworska-Rolewicz, Danuta)** *see* **Algebraic analysis and related topics, 2001d:00026**

Items listed otherwise than by author

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**Analytical methods of analysis and differential equations** ★ Analytical methods of analysis and differential equations.

**Conference:**

**Algebraic Analysis and Related Topics** ★ Algebraic analysis and related topics. **2001d:00026**

**Memorial Issue:**

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**Kalpakam, N. V.** *see* **Karunakaran, V., 2001i:44011**

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**Pelloni, Beatrice** *see* **Fokas, A. S., 2001k:47104**

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**Pilipović, Stevan S.** *see* **Kamiński, Andrzej et al., 2001h:46066** *and* **2001i:46070**
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**Rakotondratsimba, Yves** Two-dimensional discrete Hardy operators in weighted Lebesgue spaces with mixed norms. (English and Georgian summaries) **2001m:26069**
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**Rodríguez-Mesa, Lourdes** *see* **Betancor, Jorge J., 2001m:44009**
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## 44A20 Transforms of special functions

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**Bhardwaj, Rajesh** *see* **Sethi, P. L., 2001d:44004**
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# 45–XX Integral equations

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**Miller, Richard Keith[1]** Volterra integral equations at Wisconsin. (English summary) **2001a:45001**

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## 45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

**Ladopoulos, E. G.** ★ Singular integral equations. (English summary) **2001g:45002**

### 45E05 Integral equations with kernels of Cauchy type [see also 35J15]

**Ayupova, E. F.** On a solution of a two-dimensional weakly singular equation of the first kind. (Russian) **2001j:45004**
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## 45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

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**Kilbas, A. A.** (*with* Demianko, Svetlana V.) Solution of multi-dimensional Abel-type integral equations with power-logarithmic kernels. (English summary) **2001j:45008**
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**Brannan, James R.** (*with* Duan, Jinqiao; Ervin, Vincent J.; Razoumov, Leonid) Wiener-Hopf factorization of a multiple plate diffraction problem. (English summary) (*see* **2001e:00021**)
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**Giova, R.** *see* **Capobianco, M. R. et al., (2001i:65003)**
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**Kamimura, Yutaka** *see* **Iwasaki, Katsunori, 2001a:45008**
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**Mityushev, Vladimir V.** (*with* Rogosin, Sergei V.) ★ Constructive methods for linear and nonlinear boundary value problems for analytic functions. **2001d:30075**
**Mozalevskiĭ, V. V.** On a method for solving a convolution-type equation of the first kind. (Russian. English and Russian summaries) **2001f:65157**
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**Tamme, Enn** Numerical computation of weakly singular integrals. (English summary) **2001j:65043**
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## 45Fxx Systems of linear integral equations

### 45F05 Systems of nonsingular linear integral equations

**Askhabov, S. N.** (*with* Betilgiriev, M. A.) Systems of convolution-type equations with a nonhomogeneous linear part. (Russian) (*see* **2001d:35003**)
**Betilgiriev, M. A.** *see* **Askhabov, S. N., (2001d:35003)**
**Fedorov, D. L.** On the representation of Perron-Stieltjes integral equations by means of series. (Russian) **2001h:45004**
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**Lipachëv, E. K.** On boundary integral equation method in scattering problem for unbounded domains. (English summary) (*see* **2001e:00021**)

### 45F10 Dual, triple, etc., integral and series equations

**Bardzokas, D. I.** (*with* Rudakova, O. B.) Dual integral equation systems involving Bessel functions which are arising in elasticity theory. (Armenian summary)
**Chaurasia, V. B. L.** (*with* Patni, Rinku) A class of convolution integral equations concerning a generalized polynomial set. (English summary) **2001m:45005**
**Ciaurri, Óscar** (*with* Guadalupe Hernández, José Javier; Pérez, Mario; Varona, Juan L.) Solving dual integral equations on Lebesgue spaces. (English summary) **2001j:45010**
**Dong, Jin Lin** *see* **Wang, Wen You et al.**
**Guadalupe Hernández, José Javier** *see* **Ciaurri, Óscar et al., 2001j:45010**
**Jain, Sanjay Kumar** *see* **Narain, Kuldeep**
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**Narain, Kuldeep** (*with* Jain, Sanjay Kumar) Simultaneous triple series equations involving generalized Bateman-$k$ functions. (English summary)
**Patni, Rinku** *see* **Chaurasia, V. B. L., 2001m:45005**
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**Xie, Zhong Cai** *see* **Wang, Wen You et al.**

### 45F15 Systems of singular linear integral equations

**Mamedov, Yu. A.** (*with* Rzayev, M. Y.) On solvability of one degenerated system of singular integral equations. (English summary) **2001e:45002**
**(Panarina, V. K.)** *see* **Mamedov, Yu. A., 2001e:45002**
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**Cibotaru, T.** On approximate solution of non-elliptic singular integral equation systems in Lebesgue spaces. (English summary) **2001i:65139**
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**Guediri, Hocine** *see* **Durand, Marc, (2001e:00021)**
**Malyshev, K. I.** Direct methods for the approximate solution of systems of singular integral equations in the case of nonnegative partial indices. (Russian. English and Ukrainian summaries) **2001b:45034**
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## 45Gxx Nonlinear integral equations [see also 47H30, 47Jxx]

### 45G05 Singular nonlinear integral equations

**Coclite, Mario Michele** Positive solutions of a Hammerstein integral equation with a singular nonlinear term. (English summary) **2001f:45006**
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**Agarwal, Ravi P.** (*with* O'Regan, Donal) Periodic solutions of integrodifferential inclusions. (English summary) **2001h:45006**
**Appell, Jürgen M.** (*with* De Pascale, Espedito; Zabreĭko, Petr Petrovich) On the unique solvability of Hammerstein integral equations with non-symmetric kernels. (English summary) **2001g:45003**
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**Chmaj, Adam** (*with* Ren, Xiaofeng) Homoclinic solutions of an integral equation: existence and stability. (English summary) **2001g:45005**
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## 45H05 Miscellaneous special kernels [see also 44A15]

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## 45J05 Integro-ordinary differential equations [see also 34K05, 34K30, 47G20]

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## 45Mxx Qualitative behavior

### 45M05 Asymptotics

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## 45M15 Periodic solutions

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# 45N05 Abstract integral equations, integral equations in abstract spaces

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## 45P05 Integral operators [see also 47B38, 47G10]

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## 45Q05 Inverse problems

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## 45R05 Random integral equations [see also 60H20]

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**Balachandran, Krishnan** *see* **Subramaniam, Rakkianna Gounder et al., 2001j:60125**
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**Okonkwo, Zephyrinus C.** Stochastic functional differential equations with abstract Volterra operators. I. Existence of solutions. (English summary) **2001a:60079**
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# 46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx.}

## 46–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Bachman, George** (*with* Narici, Lawrence) ★ Functional analysis. (English summary) **2001k:46001**
**Bosch-Giral, Carlos** To infinity and beyond ... in functional analysis. (Spanish)
**Krishnan, V. K.** ★ Textbook of functional analysis. (English summary) **2001k:46002**
**Larsen, Flemming** *see* **Rørdam, Mikael et al., 2001g:46001**
**Laustsen, N.** *see* **Rørdam, Mikael et al., 2001g:46001**
**Liu, Ying Dong** A teaching method for two theorems in functional analysis and their applications. (Chinese. English and Chinese summaries)
**Narici, Lawrence** *see* **Bachman, George, 2001k:46001**
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**Problems:**
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Items with secondary classifications in 46–01

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**(Bhat, B. V. Rajarama)** *see* **Lectures on operator theory, 2001j:46077**
**Conway, John B.** ★ A course in operator theory. **2001d:47001**
**(Elliott, George A.)** *see* **Lectures on operator theory, 2001j:46077**
**(Fillmore, Peter A.)** *see* **Lectures on operator theory, 2001j:46077**
**Yeh, James J.** ★ Lectures on real analysis. (English summary) **2001i:28001**

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**Benyamini, Yoav** (*with* Lindenstrauss, Joram) ★ Geometric nonlinear functional analysis. Vol. 1. (English summary) **2001b:46001**
**Lindenstrauss, Joram** *see* **Benyamini, Yoav, 2001b:46001**

Items with secondary classifications in 46–02

**(Bhat, B. V. Rajarama)** *see* **Lectures on operator theory, 2001j:46077**
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**(Fillmore, Peter A.)** *see* **Lectures on operator theory, 2001j:46077**
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**(Lozanovskiĭ, G. Ya.)** *see* **Abramovich, Yuri A., 2001d:46001**
**Veksler, A. I.** *see* **Abramovich, Yuri A., 2001d:46001**

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**Accardi, Luigi** Vito Volterra and the development of functional analysis. (*see* **2001d:00034**)
**Drewnowski, Lech** Recent developments of some ideas and results of Orlicz on unconditional convergence. (English summary) **2001d:46031**
**Hedberg, Lars Inge** On Maz'ya's work in potential theory and the theory of function spaces. (English summary) **2001a:01052**
**(Hilbert, David[1])** *see* **Lacki, Jan, 2001k:01044**
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**Lacki, Jan** The early axiomatizations of quantum mechanics: Jordan, von Neumann and the continuation of Hilbert's program. (English summary) **2001k:01044**
**Maligranda, Lech** (*with* Wnuk, Witold) Władysław Orlicz: his life and contributions to mathematics. **2001h:01053**
**— (*with* Wnuk, Witold)** Władysław Orlicz (1903–1990). (Polish) **2001k:01059**
**(Maz'ya, Vladimir G.)** *see* **Hedberg, Lars Inge, 2001a:01052**
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## 46–06 Proceedings, conferences, collections, etc.

**(Cabello Sánchez, Félix)** *see* **Congress: Banach Spaces, 2001j:46001**
**(Castillo, Jesús M. F.)** *see* **Congress: Banach Spaces, 2001j:46001**
**(Cuntz, Joachim)** *see* **$C^*$-algebras, 2001g:46002**
**(Echterhoff, Siegfried)** *see* **$C^*$-algebras, 2001g:46002**
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**(Khelemskiĭ, A. Ya.)** *see* **Topological homology, 2001c:46001**
**(Skrzypczak, Leszek)** *see* **Function spaces, 2001d:46002**

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**Analytic function spaces and operators on them** ★ Kaiseki kansū kūkan to sono ue no sayōso ron. (Japanese) [Analytic function spaces and operators on them] **2001e:46001**
**Conference:**
**Function Spaces** ★ Function spaces. **2001d:46002**
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**Progress in operator algebra theory** ★ Sayōso kan ron no shinten. [Progress in operator algebra theory] **2001d:46003**
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**$C^*$-algebras and their Applications to Topological Dynamical Systems** ★ $C^*$-kan ron to sono isō rikigaku kei e no ōyō. (Japanese) [$C^*$-algebras and their applications to topological dynamical systems] **2001f:46001**
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**Workshop:**
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**(Alpay, Daniel)** *see* **Reproducing kernels and their applications, 2001d:00046**
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# 46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

## 46A03 General theory of locally convex spaces

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**Bisgaard, Torben Maack** On the topology induced by mixtures of exponentials. (English summary) **2001g:46003**
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**Du, Xinghua** *see* **Wu, Jun De et al., 2001f:46002**
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**Narang, T. D.** *see* **Wu, Jun De, 2001a:47063**
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**Yan, Cong Hua** (*with* Fang, Jin Xuan) $L$-fuzzy locally convex topological vector spaces. (English summary) **2001k:46120**

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**Defant, Andreas** (*with* Domański, Paweł; Mastyło, Mieczysław) Extension and splitting theorems for Fréchet spaces of type 2. (English summary) **2001d:46006**
**Domański, Paweł** *see* **Defant, Andreas et al., 2001d:46006**
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**Arslan, Bora** (*with* Kocatepe, Mefharet) The quasi-equivalence problem for a class of Köthe spaces. (English summary) **2001b:46011**
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**Bonet, José** (*with* Defant, Andreas) The Levy-Steinitz rearrangement theorem for duals of metrizable spaces. (English summary) **2001d:46012**
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**Chalov, P. A.** (*with* Dragilev, M. M.; Zakharyuta, V. P.) Pairs of finite-type power series spaces. (English summary) **2001d:46016**
— (*with* Djakov, P. B.; Zakharyuta, V. P.) Compound invariants and embeddings of Cartesian products. (English summary) **2001d:46017**
**Chen, Xiang Ping²** $T_3$ and $T_4$ Fréchet $(V)$ spaces. (Chinese. English and Chinese summaries) **2001a:54029**
**Defant, Andreas** *see* **Bonet, José, 2001d:46012**
**Díaz Alcaide, Juan Carlos** Decompositions of Montel Köthe sequence spaces. (English summary) **2001a:46006**
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**Djakov, P. B.** (*with* Terzioğlu, T.; Zakharyuta, V. P.) Invariant $m$-characteristics for Köthe spaces. (English summary) **2001c:46006**
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**Fernández López, Antonio²** (*with* Naranjo, Francisco) AL- and AM-spaces of integrable scalar functions with respect to a Fréchet-valued measure. (English summary) **2001k:46070**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
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**Le Mau Hai** (*with* Nguyen Van Khue) Some characterizations of the properties (DN) and $(\bar{\Omega})$. (English summary) **2001j:46004**
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## 46A08 Barrelled spaces, bornological spaces

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**Kąkol, Jerzy** (*with* Saxon, Stephen A.) The semi-Baire-like three-space problems. (English summary) **2001g:46005**
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**Tweddle, Ian** A perturbation theorem for barrelled countable enlargements. (English summary) **2001c:46002**
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**Dontchev, Julian** (*with* Salbany, Sergio; Valov, Vesko) Barrelled and bornological function spaces. (English summary) **2001c:46037**
**Kąkol, Jerzy** Baire property and related concepts for spaces $C(X, E)$. **2001h:46057**
**Paúl, Pedro J.** The space of Denjoy-Dunford integrable functions is ultrabornological. (English summary) **2001m:46081**
**Salbany, Sergio** *see* **Dontchev, Julian et al., 2001c:46037**
**Stuart, Christopher E.** Normed barrelled spaces. **2001d:46033**
**Swartz, Charles** Barrelledness of the space of Archimedean integrable functions. (English summary) **2001b:46069**
— A gliding hump property for the Henstock-Kurzweil integral. (English summary) **2001k:26009**
— A uniform boundedness principle for spaces with a family of projections. (English summary) **2001d:46010**
— An abstract uniform boundedness result. (English summary) **2001k:46059**
**Tajmouati, Abdelaziz** (*with* Zinedine, Ahmed) Éléments singuliers permanents dans la classe des algèbres bornologiques. (English summary) [Permanently singular elements in the class of bornological algebras] **2001c:46092**
**Valov, Vesko** *see* **Dontchev, Julian et al., 2001c:46037**
**Zinedine, Ahmed** *see* **Tajmouati, Abdelaziz, 2001c:46092**

## 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

**Deheri, G. M.** $\lambda(P)$-nuclearity of locally convex spaces having generalized bases. (English summary) **2001f:46004**
**Jiang, Xue Yuan** Subkernel spaces. (Chinese. English and Chinese summaries) **2001k:46004**
**Paúl, Pedro J.** (*with* Sáez Agulló, Carmen; Virués, Juan M.) Completeness of spaces with Toeplitz decompositions. (English and Spanish summaries) **2001b:46005a**
— (*with* Sáez Agulló, Carmen; Virués, Juan M.) Barrelledness of spaces with Toeplitz decompositions. (English summary) **2001b:46005b**
— (*with* Sáez Agulló, Carmen; Virués, Juan M.) Locally convex spaces with Toeplitz decompositions. (English summary) **2001b:46005c**
**Sáez Agulló, Carmen** *see* **Paúl, Pedro J. et al., 2001b:46005a; 2001b:46005b** *and* **2001b:46005c**
**Virués, Juan M.** *see* **Paúl, Pedro J. et al., 2001b:46005a; 2001b:46005b** *and* **2001b:46005c**

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**Arslan, Bora** (*with* Kocatepe, Mefharet) The quasi-equivalence problem for a class of Köthe spaces. (English summary) **2001b:46011**
— (*with* Goncharov, A. P.; Kocatepe, Mefharet) Sequence space representations of spaces of Whitney functions. (English summary) **2001f:46036**
**Banakh, T. O.** Topological classification of strong duals to nuclear (LF)-spaces. (English summary) **2001e:57025**
**Dinh Huy Hoang** *see* **Do Duc Thai, 2001b:32038**
**Do Duc Thai** (*with* Dinh Huy Hoang) Continuous linear extension operators on spaces of holomorphic functions on closed subgroups of a complex Lie group. (English summary) **2001b:32038**
**Domański, Paweł** (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**
**Galindo, Jorge** (*with* Hernández, Salvador) The concept of boundedness and the Bohr compactification of a MAP abelian group. (English summary) **2001c:22001**
**Goncharov, A. P.** *see* **Arslan, Bora et al., 2001f:46036**
**Hernández, Salvador** *see* **Galindo, Jorge, 2001c:22001**
**Kocatepe, Mefharet** *see* **Arslan, Bora et al., 2001b:46011** *and* **2001f:46036**
**Kondakov, V. P.** The existence of bases in complemented nuclear subspaces of infinite-type power series. (Russian) **2001g:46014**
**Le Mau Hai** (*with* Nguyen Van Khue; Nguyen Ha Thanh) The properties ($\Omega$) and (DN) of spaces of entire functions of bounded type. (English summary) **2001c:46038**
**López Molina, J. A.** (*with* Martínez-Giménez, Félix; Rivera Ortún, María José; Sánchez Pérez, E. A.) Montel maps on interpolation of echelon sequence Köthe spaces by Goulaouic's method. **2001g:46015**
**Martínez-Giménez, Félix** *see* **López Molina, J. A. et al., 2001g:46015**
**Nguyen Ha Thanh** *see* **Le Mau Hai et al., 2001c:46038**
**Nguyen Van Khue** *see* **Le Mau Hai et al., 2001c:46038**
**Rivera Ortún, María José** *see* **López Molina, J. A. et al., 2001g:46015**
**Sánchez Pérez, E. A.** *see* **López Molina, J. A. et al., 2001g:46015**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125**
**Zobin, Nahum** Some remarks on quasi-equivalence of bases in Fréchet spaces. (English summary) **2001a:46005**

## 46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

**Albanese, Angela A.** A projective description of Fréchet valued co-echelon spaces of infinite order. (English summary) **2001d:46007**
**Berscheid, N.** Baire properties of locally convex spaces. **2001g:46007**
**Gómez Wulschner, Claudia** (*with* Kučera, Jan) Sequential completeness of inductive limits. (English summary) **2001d:46008**
**Kučera, Jan** Regularity of conservative inductive limits. (English summary) **2001b:46006**
— *see also* **Gómez Wulschner, Claudia, 2001d:46008**
**Platonov, S. S.** Convergence and sequential convergence in some functional topological vector spaces. (Russian. English and Russian summaries) **2001d:46009**
**Qiu, Jing Hui** Sequential retractivities and regularity on inductive limits. (English summary) **2001i:46004**
— Weak property ($Y_0$) and regularity of inductive limits. (English summary) **2001g:46008**
— On ultraregular inductive limits. (English summary) **2001k:46005**
**Wengenroth, Jochen** Regularity of general weighted inductive limits. (English summary) **2001c:46003**

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**Albanese, Angela A.** On completeness and projective descriptions of weighted inductive limits of spaces of Fréchet-valued continuous functions. (English summary) **2001j:46043**
**Bonet, José** (*with* Taskinen, Jari) The subspace problem for weighted inductive limits revisited. (English summary) **2001e:46035**
**Defant, Andreas** (*with* Domański, Paweł; Mastylo, Mieczysław) Extension and splitting theorems for Fréchet spaces of type 2. (English summary) **2001d:46006**
**Domański, Paweł** (*with* Vogt, Dietmar) Distributional complexes split for positive dimensions. (English summary) **2001g:46090**
— (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**
— (*with* Vogt, Dietmar) The space of real-analytic functions has no basis. (English summary) **2001m:46044**
— *see also* **Defant, Andreas et al., 2001d:46006**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
**Maestre, Manuel** *see* **García, Domingo et al., 2001c:46071**
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**Mauer, Murielle** Domains of R-analytic existence in inductive limits of real separable Banach spaces. (English summary) **2001j:46047**
**Orlov, I. V.** A termwise differentiation in the inductive scales of the locally convex spaces. (English summary) **2001d:46061**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071**
**Solomatin, O. D.** On the expansion of the vectors of a locally convex space in series of eigenelements of a linear operator. (Russian. English and Russian summaries) **2001k:47021**
**Tahata, Rataka** Some remarks on Nakanishi's Riesz type representation of measures. (English summary) **2001c:28022**
**Taskinen, Jari** *see* **Bonet, José, 2001e:46035**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125; 2001g:46090** *and* **2001m:46044**

## 46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

**Arandjelović, Ivan D.** Some properties of Istratescu's measure of noncompactness. (English summary) **2001j:46003**
**Ding, Guanggui** The uniform boundedness principle in some topological vector groups. (English summary) **2001e:46002**
**Domínguez, X.** (*with* Tarieladze, V. I.) Nuclear and GP-nuclear groups. (English summary) **2001i:46005**
**Ma, Yu Mei** The Aleksandrov problem for unit distance preserving mapping. (English summary) **2001k:46006**
**Maddox, Ivor J.** Concepts of slow oscillation. (English summary) **2001i:46006**
**Swartz, Charles** A uniform boundedness principle for spaces with a family of projections. (English summary) **2001d:46010**
**Tarieladze, V. I.** *see* **Domínguez, X., 2001i:46005**

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**Abujabal, H. A. S.** *see* **Khan, Liaqat Ali[1] et al., 2001k:46058**
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**Cabello Sánchez, Félix** Maximal symmetric norms on Banach spaces. (English summary) **2001i:46012**
**Defant, Andreas** (*with* López Molina, J. A.; Rivera Ortún, María José) On Pitt's theorem for operators between scalar and vector-valued quasi-Banach sequence spaces. (English summary) **2001e:46009**
**Khan, Liaqat Ali[1]** (*with* Abujabal, H. A. S.; Al-Ghamdi, Mohammed Ali) On the Riesz representation theorem in topological vector spaces. (English summary) **2001k:46058**

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Mendez, Osvaldo (*with* Mitrea, Marius) The Banach envelopes of Besov and Triebel-Lizorkin spaces and applications to partial differential equations. (English summary) 2001k:46056
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Rivera Ortún, María José *see* Defant, Andreas et al., 2001e:46009
Rolewicz, Stefan On locally bounded algebras. (English summary) 2001h:46084
Śliwa, Wiesław The separable quotient problem for symmetric function spaces. (English summary) 2001c:46058

## 46A17 Bornologies and related structures; Mackey convergence, etc.

Items with secondary classifications in 46A17

Bosch-Giral, Carlos (*with* García-Martínez, Armando) Banach-Mackey, locally complete spaces, and $l_{pq}$-summability. (English summary) 2001b:46002
Español, Luis (*with* Lambán Pardo, Laureano A.) A tensor-hom adjunction in a topos related to vector topologies and bornologies. (English summary) 2001f:18007
García-Martínez, Armando *see* Bosch-Giral, Carlos, 2001b:46002
Lambán Pardo, Laureano A. *see* Español, Luis, 2001f:18007

## 46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Bhattacharya, D. K. (*with* Roy, Tapan Kumar²) Tensor product and $l$-two paranormed structures. (English summary) 2001d:46011
Li, Gang (*with* Ma, Yu Mei) The Mazur-Ulam theorem for $F$-normed spaces. (Chinese. English and Chinese summaries) 2001g:46009
Lyudkovskiĭ, S. V. $\kappa$-normed topological vector spaces. (Russian. Russian summary) 2001f:46005
Ma, Yu Mei *see* Li, Gang, 2001g:46009
Malčeski, Risto Strong convex $n$-normed spaces. (English and Macedonian summaries) 2001k:46007
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Ambrożko, Edward Estimation countably modulared spaces by multimodular spaces. (English summary) 2001j:46005
Averbukh, Vladimir I. On boundedly-convex functions on pseudo-topological vector spaces. (English summary) 2001a:46042
de Deus Marques, João On vectorial inner product spaces. (English summary) 2001e:46034
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## 46A20 Duality theory

Cel, J. Support functional and dual cone with application. (English summary) 2001f:46006
Qiu, Jing Hui A cone characterisation of reflexive locally convex spaces. (English summary) 2001h:46001

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Akbarov, S. S. Stereotype locally convex spaces. (Russian. Russian summary) 2001i:46002
Du, Xinghua *see* Wu, Jun De et al., 2001f:46002
Garibay Bonales, Fernando (*with* Vera Mendoza, Rigoberto) Duality in non-Archimedean vector spaces. (Spanish) 2001h:46131
Li, Rong Lu *see* Wu, Jun De, 2001g:46004
Nawrocki, Marek On Lumer's Hardy spaces $LH^p(U^n)$. 2001h:46029
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Orlov, I. V. Banach-Grothendieck theorem for the scales of spaces. (English summary) (*see* 2001e:47006)
Pap, Endre *see* Wu, Jun De et al., 2001f:46002
Tweddle, Ian A perturbation theorem for barrelled countable enlargements. (English summary) 2001c:46002
Valdivia, Manuel Some properties in spaces of multilinear functionals and spaces of polynomials. (English summary) 2001e:46086
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Wu, Jun De (*with* Pap, Endre; Du, Xinghua) The locally convex $\mathscr{M}$-spaces and their dual spaces. (English summary) 2001f:46002
— (*with* Li, Rong Lu) An Orlicz-Pettis theorem with applications to $\mathscr{M}$-spaces. 2001g:46004

## 46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Diab, Adel T. *see* Mukhamadiev, È. M., 2001b:46007
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Roth, Walter Hahn-Banach type theorems for locally convex cones. (English summary) 2001b:46008
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Godefroy, Gilles (*with* Kalton, N. J.; Li, Daniel) Operators between subspaces and quotients of $L^1$. (English summary) 2001e:46025
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Rhie, Gil Seob (*with* Hwang, In Ah) On the fuzzy Hahn-Banach theorem—an analytic form. (English summary) 2001i:46119
Skordev, Dimitʳr G. A separation theorem of Y. Tagamlitzki in its natural generality. (English summary) 2001a:52002
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## 46A25 Reflexivity and semi-reflexivity [see also 46B10]

Orlov, I. V. Banach-Grothendieck theorem for the scales of spaces. (English summary) (*see* 2001e:47006)

## 46A30 Open mapping and closed graph theorems; completeness (including $B$-, $B_r$-completeness)

Aamri, Mohamed (*with* El Miloudi, Marhrani) Modules à réseau absorbant. (English and French summaries) [Modules with absorbing nets] 2001i:46007
Akram, M. *see* Khan, Abdul Rahim et al., 2001a:46002
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Khan, Abdul Rahim (*with* Hussain, Nawab; Akram, M.) On open mapping and closed graph theorems. (English summary) 2001a:46002

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Xiao, Jian Zhong The level-set method for the open mapping theorem and the closed graph theorem on Menger spaces. (Chinese. English and Chinese summaries) 2001m:46169

## 46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47L05, 47L20]

Ansemil, José M. (*with* Blasco, Fernando; Ponte, Socorro) (BB) properties on Fréchet spaces. (English summary) 2001f:46007
Blasco, Fernando *see* Ansemil, José M. et al., 2001f:46007
Defant, Andreas (*with* Peris, Alfredo) Transfer arguments for spaces of operators and tensor products. (English summary) 2001c:46004
Gök, Ömer The dual Bade theorem in locally convex spaces and reflexivity of a closed unital subalgebra. (English summary) 2001e:46003
Peña, Carlos C. Closed principal ideals on Hadamard rings. (English summary) 2001f:46008
Peris, Alfredo *see* Defant, Andreas, 2001c:46004
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Blei, R. (*with* Caggiano, J.) Projective boundedness and convolution of Fréchet measures. (English summary) 2001b:43001
Boyd, Christopher Duality and reflexivity of spaces of approximable polynomials on locally convex spaces. (English summary) 2001i:46076
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Defant, Andreas (*with* Domański, Paweł; Mastyło, Mieczysław) Extension and splitting theorems for Fréchet spaces of type 2. (English summary) 2001d:46006
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**Manhas, J. S.** *see* **Singh, Raj Kishor, 2001i:46080**
**Mascioni, Vania** A refinement of Weyl's inequality between eigenvalues and singular numbers. (English summary)
**Mastylo, Mieczysław** *see* **Defant, Andreas et al., 2001d:46006**
**Pap, Endre** *see* **Wu, Jun De et al., 2001f:46002**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071**
**Singh, Raj Kishor** (*with* Manhas, J. S.) Singular operators on locally convex spaces. (English summary) **2001i:46080**
**Thornburg, Mark L.** (*with* Hill, Richard D.) Order intervals of matrices. (English summary) **2001b:15005**
**Wu, Jun De** (*with* Pap, Endre; Du, Xinghua) The locally convex $\mathscr{A}$-spaces and their dual spaces. (English summary) **2001f:46002**

## 46A35 Summability and bases [see also 46B15]

**Alekseeva, E. N.** Analogues of a rational series in a locally convex space. (Russian. English and Russian summaries) **2001m:46003**
**Bonet, José** (*with* Defant, Andreas) The Levy-Steinitz rearrangement theorem for duals of metrizable spaces. (English summary) **2001d:46012**
**Defant, Andreas** *see* **Bonet, José, 2001d:46012**
**Du, Xinghua** *see* **Wu, Jun De et al., 2001a:46004**
**Kang, Shin Min** *see* **Li, Rong Lu, 2001a:46003**
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— (*with* Li, Rong Lu) Unconditional convergent series on locally convex spaces. (English summary) **2001b:46009**
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**Zobin, Nahum** Some remarks on quasi-equivalence of bases in Fréchet spaces. (English summary) **2001a:46005**

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**Balkov, Gurko I.** (*with* Dimitrov, Ivan P.) About Zahariuta-Vogt's conditions. (English summary) **2001k:46009**
**Bosch-Giral, Carlos** (*with* García-Martínez, Armando) Banach-Mackey, locally complete spaces, and $l_{p,q}$-summability. (English summary) **2001b:46002**
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**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
**García-Martínez, Armando** *see* **Bosch-Giral, Carlos, 2001b:46002**
**Goncharov, A. P.** Spaces of Whitney functions with basis. (English summary) **2001k:46036**
**Kocatepe, Mefharet** *see* **Arslan, Bora, 2001b:46011**
**Kondakov, V. P.** Geometric properties of Fréchet spaces and the selection of basis sequences. (Russian. Russian summary) **2001b:46004**
**Korobeinik, Yu. F.** On absolutely representing systems in spaces of infinitely differentiable functions. (English summary) **2001d:46039**
**Maestre, Manuel** *see* **García, Domingo et al., 2001c:46071**
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**Paúl, Pedro J.** (*with* Sáez Agulló, Carmen; Virués, Juan M.) Completeness of spaces with Toeplitz decompositions. (English and Spanish summaries) **2001b:46005a**
— (*with* Sáez Agulló, Carmen; Virués, Juan M.) Barrelledness of spaces with Toeplitz decompositions. (English summary) **2001b:46005b**
— (*with* Sáez Agulló, Carmen; Virués, Juan M.) Locally convex spaces with Toeplitz decompositions. (English summary) **2001b:46005c**
**Qiu, Jing Hui** Weak property $(Y_0)$ and regularity of inductive limits. (English summary) **2001g:46008**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071**
**Sáez Agulló, Carmen** *see* **Paúl, Pedro J. et al., 2001b:46005a; 2001b:46005b** *and* **2001b:46005c**
**Virués, Juan M.** *see* **Paúl, Pedro J. et al., 2001b:46005a; 2001b:46005b** *and* **2001b:46005c**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001m:46044**

## 46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

**de Amo, E.** (*with* Chiţescu, Ion; Díaz Carrillo, M.) Absolute continuity from a topological point of view. **2001m:46004**
**Chiţescu, Ion** *see* **de Amo, E. et al., 2001m:46004**
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**El Mounir, Fatimetou Mint** (*with* Oudadess, Mohamed) Applications relativement bornées sur les cônes $C$-réguliers. (English and French summaries) [Relatively bounded mappings on $C$-regular cones] **2001e:46004**
**El-Sayyad, Siham Galal** A new class of topological vector lattices. (English summary) **2001i:46008**
**Fernández López, Antonio[2]** (*with* Naranjo, Francisco) Strictly positive linear functional and representation of Fréchet lattices with the Lebesgue property. (English summary) **2001m:46005**
**Huijsmans, Charles Boudewijn** Finitely generated vector sublattices. (English summary) **2001b:46010**
**Kogut, P. I.** On the topological convergence of epigraphs in partially ordered vector spaces. (Ukrainian. English and Russian summaries) **2001f:46009**
**Komuro, Naoto** (*with* Koshi, Shozo) Generalized supremum in partially ordered linear space. (English summary) **2001d:46013**
— (*with* Yoshimura, Hiroko) Generalized supremum in partially ordered linear space and the monotone order completeness. (English summary) **2001e:46005**
— *see also* **Koshi, Shozo, 2001e:46006**
**Koshi, Shozo** Optimal set in ordered linear space. (English summary) **2001e:46007**
— (*with* Komuro, Naoto) Supsets of partially ordered topological linear spaces. (English summary) **2001e:46006**
— *see also* **Komuro, Naoto, 2001d:46013**
**Naranjo, Francisco** *see* **Fernández López, Antonio[2], 2001m:46005**
**Oudadess, Mohamed** *see* **El Mounir, Fatimetou Mint, 2001e:46004**
**Potepun, A. V.** Continuoity conditions of algebraic operations in the order topology of vector lattices. (English summary)
**Wójtowicz, Marek** The Sobczyk property and copies of $l_\infty$ in locally convex-solid Riesz spaces. (English summary) **2001g:46011**
**Yoshimura, Hiroko** *see* **Komuro, Naoto, 2001e:46005**

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**Alpay, Şafak** (*with* Turan, Bahri) On the commutant of the ideal centre. (English summary) **2001d:47053**
**Becker, Richard Edouard** ★ Cônes convexes en analyse. (French. English and French summaries) [Convex cones in analysis] **2001c:46008**
**Beltrametti, Enrico G.** *see* **Gudder, Stanley et al., 2001c:81007**
**Berti, Patrizia** (*with* Rigo, Pietro) Integral representation of linear functionals on spaces of unbounded functions. (English summary) **2001b:28016**
**Boulabiar, K.** Products in almost $f$-algebras. (English summary) **2001j:06024**
**Brannath, W.** (*with* Schachermayer, Walter) A bipolar theorem for $L^0_+(\Omega, \mathscr{F}, \mathbf{P})$. (English summary) **2001d:46019**
**Bugajski, S.** *see* **Gudder, Stanley et al., 2001c:81007**
**Buskes, G.** (*with* Van Rooij, Arnoud C. M.) Almost $f$-algebras: commutativity and the Cauchy-Schwarz inequality. **2001j:46068**
— (*with* Van Rooij, Arnoud C. M.) Almost $f$-algebras: structure and the Dedekind completion. (English summary) **2001j:46062**
**Chen, Shu Tao** *see* **Gong, Yanping et al., 2001f:46031**
**(Choquet, Gustave)** *see* **Becker, Richard Edouard, 2001c:46008**
**Diab, Adel T.** *see* **Mukhamadiev, È. M., 2001b:46007**
**Drewnowski, Lech** (*with* Labuda, Iwo) Vector series whose lacunary subseries converge. (English summary) **2001e:40004**
**Emel'yanov, Eduard Yu.** (*with* Räbiger, Frank; Wolff, Manfred P. H.) Asymptotic behavior of positive operators on Banach lattices. **2001k:47053**
**Gong, Yanping** (*with* Wu, Qin Hua; Chen, Shu Tao) Extreme points and norm attainable functionals in duals of AL spaces. **2001f:46031**
**Grząślewicz, Ryszard** Quasi-interior in Banach spaces. (English summary) **2001f:46019**
**Gudder, Stanley** (*with* Pulmannová, Sylvia; Bugajski, S.; Beltrametti, Enrico G.) Convex and linear effect algebras. (English summary) **2001c:81007**
**Gutman, A. E.** Banach fiberings in the theory of lattice-normed spaces. (Russian. Russian summary) **2001k:46033**
**Hill, Richard D.** *see* **Thornburg, Mark L., 2001b:15005**
**Hu, Y. D.** (*with* Ling, Chen) Connectedness of cone superefficient point sets in locally convex topological vector spaces. (English summary) **2001j:90085**
**Komuro, Naoto** Ordered norm in partially ordered linear space. (English summary) **2001j:46024**
**Koshi, Shozo** Topics on partially ordered linear space. (English summary) (*see* **2001a:00034**)
**Kusraev, A. G.** (*with* Kutateladze, Semën Samsonovich) ★ Boolean valued analysis. (English summary) **2001i:03002**
**Kutateladze, Semën Samsonovich** *see* **Kusraev, A. G., 2001i:03002**
**Labuda, Iwo** *see* **Drewnowski, Lech, 2001e:40004**
**Ling, Chen** *see* **Hu, Y. D., 2001j:90085**
**Lu, Jinkui** $k$-major order in real infinite-dimensional linear space and its application. (English summary) **2001e:90081**
**Mukhamadiev, È. M.** (*with* Diab, Adel T.) On the extension of positive linear functionals. (English summary) **2001b:46007**
**Polyrakis, Ioannis A.** Spaces with dual order-isomorphic to $l_1$. (English summary) **2001g:46039**
**Pulmannová, Sylvia** *see* **Gudder, Stanley et al., 2001c:81007**
**Räbiger, Frank** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**
**Rigo, Pietro** *see* **Berti, Patrizia, 2001b:28016**
**Roth, Walter** Hahn-Banach type theorems for locally convex cones. (English summary) **2001b:46008**
**Schachermayer, Walter** *see* **Brannath, W., 2001d:46019**
**Schneider, Hans** *see* **Tam, Bit-Shun, 2001f:15024**
**Tam, Bit-Shun** (*with* Schneider, Hans) On the invariant faces associated with a cone-preserving map. (English summary) **2001f:15024**
**Thornburg, Mark L.** (*with* Hill, Richard D.) Order intervals of matrices. (English summary) **2001b:15005**
**Turan, Bahri** *see* **Alpay, Şafak, 2001d:47053**
**Van Rooij, Arnoud C. M.** *see* **Buskes, G., 2001j:46062** *and* **2001j:46068**
**Wolff, Manfred P. H.** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**
**Wu, Qin Hua** *see* **Gong, Yanping et al., 2001f:46031**
**Xiong, Hongyun** (*with* Zhang, Xinjun) A characterization of realcompact Stonian spaces $X$ and extended Riesz homomorphisms on $C^\infty(X)$. (English summary) **2001e:46102**
**Zhang, Xinjun** *see* **Xiong, Hongyun, 2001e:46102**

## 46A45 Sequence spaces (including Köthe sequence spaces) [see also 46B45]

**Arizmendi Peimbert, Hugo** (*with* Carrillo Hoyo, Angel M.; Palacios F., Lourdes) On

continuous multiplicative mappings on analytic sequence spaces. (English summary) **2001c:46005**

**Arslan, Bora** (*with* Kocatepe, Mefharet) The quasi-equivalence problem for a class of Köthe spaces. (English summary) **2001b:46011**

**Başar, Feyzi** Matrix transformations between certain sequence spaces of $X_p$ and $l_p$. (English summary) **2001d:46014**

**Bhardwaj, Vinod K.** (*with* Singh, Niranjan) Some sequence spaces defined by Orlicz functions. (English summary) **2001g:46012**

**Blasco, Fernando** On $\mathcal{X}$-Köthe echelon spaces and applications. (English summary) **2001e:46008**

— Quasinormability of vector valued sequence spaces. (English summary) **2001d:46015**

**Carrillo Hoyo, Angel M.** *see* **Arizmendi Peimbert, Hugo et al., 2001c:46005**

**Chalov, P. A.** (*with* Dragilev, M. M.; Zakharyuta, V. P.) Pairs of finite-type power series spaces. (English summary) **2001d:46016**

— (*with* Djakov, P. B.; Zakharyuta, V. P.) Compound invariants and embeddings of Cartesian products. (English summary) **2001d:46017**

**Defant, Andreas** (*with* López Molina, J. A.; Rivera Ortún, María José) On Pitt's theorem for operators between scalar and vector-valued quasi-Banach sequence spaces. (English summary) **2001e:46009**

**Díaz Alcaide, Juan Carlos** Decompositions of Montel Köthe sequence spaces. (English summary) **2001a:46006**

**Djakov, P. B.** (*with* Terzioğlu, T.; Zakharyuta, V. P.) Invariant $m$-characteristics for Köthe spaces. (English summary) **2001c:46006**

— *see also* **Chalov, P. A. et al., 2001d:46017**

**Dragilev, M. M.** *see* **Chalov, P. A. et al., 2001d:46016**

**Esi, Ayhan** Some new sequence spaces defined by a modulus function. (English summary) **2001i:46009**

**Ewert, Janina** On modular sequence spaces of non-absolute type. (English summary) **2001e:46010**

**Ince, H. G.** Cesáro conull FK-spaces. (English summary) **2001g:46013**

**Jarrah, A. M.** (*with* Malkowsky, Eberhard) The second dual spaces of the sets of $\Lambda$-strongly convergent and bounded sequences. (English summary) **2001d:46018**

— (*with* Malkowsky, Eberhard) The dual spaces of the sets of $\Lambda$-strongly convergent and bounded sequences. (English summary) **2001h:46002**

**Kara, Hasan** On generalized absolute $\sigma$-convergent sequence spaces. (English summary) **2001k:46008**

**Kocatepe, Mefharet** *see* **Arslan, Bora, 2001b:46011**

**Kolk, Enno** On sequence spaces defined by a regularly varying modulus. (English summary) **2001m:46006**

**Kondakov, V. P.** The existence of bases in complemented nuclear subspaces of infinite-type power series. (Russian) **2001g:46014**

**Liao, Jun Jun** *see* **Wu, Cong Xin, 2001b:46012**

**López Molina, J. A.** (*with* Martínez-Giménez, Félix; Rivera Ortún, María José; Sánchez Pérez, E. A.) Montel maps on interpolation of echelon sequence Köthe spaces by Goulaouic's method. **2001g:46015**

— *see also* **Defant, Andreas et al., 2001e:46009**

**Magee, James C.** (*with* Ruckle, William H.) Multipliers of matrix spaces. (English summary) **2001g:46016**

**Malkowsky, Eberhard** (*with* Rakočević, Vladimir) An introduction into the theory of sequence spaces and measures of noncompactness. **2001i:46010**

— *see also* **Jarrah, A. M., 2001d:46018** *and* **2001h:46002**

**Martínez-Giménez, Félix** *see* **López Molina, J. A. et al., 2001g:46015**

**Palacios F., Lourdes** *see* **Arizmendi Peimbert, Hugo et al., 2001c:46005**

**Rakočević, Vladimir** *see* **Malkowsky, Eberhard, 2001i:46010**

**Rath, D.** Spaces of $r$-convex sequences and matrix transformations. (English summary) **2001c:46007**

**Rivera Ortún, María José** *see* **Defant, Andreas et al., 2001e:46009** *and* **López Molina, J. A. et al., 2001g:46015**

**Ruckle, William H.** *see* **Magee, James C., 2001g:46016**

**Sánchez Pérez, E. A.** *see* **López Molina, J. A. et al., 2001g:46015**

**Savaş, Ekrem** On sequence spaces and $\tilde{S}$-convergence. (English summary) **2001e:46011**

**Singh, Niranjan** *see* **Bhardwaj, Vinod K., 2001g:46012**

**Srivastava, B. K.** *see* **Srivastava, J. K., 2001e:46012**

**Srivastava, J. K.** (*with* Srivastava, B. K.) Matrix transformations involving certain Banach space valued sequence spaces. (English summary) **2001e:46012**

**Terzioğlu, T.** *see* **Djakov, P. B. et al., 2001c:46006**

**Wu, Cong Xin** (*with* Liao, Jun Jun) Continuity of multiplication on the infinite matrix algebra $\Sigma(\lambda, \mu)$. (Chinese. English and Chinese summaries) **2001b:46012**

**Zakharyuta, V. P.** *see* **Djakov, P. B. et al., 2001c:46006**; **Chalov, P. A. et al., 2001d:46016** *and* **2001d:46017**

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**Ahmad, Zaheer** (*with* Mursaleen; Qamaruddin) Invariant means and some matrix transformations. (English summary) **2001m:40011**

**Albanese, Angela A.** A projective description of Fréchet valued co-echelon spaces of infinite order. (English summary) **2001d:46007**

**Altin, Yilmaz** Matrix transformations on certain sequence spaces. **2001b:40007**

**Ansemil, José M.** (*with* Blasco, Fernando; Ponte, Socorro) (BB) properties on Fréchet spaces. (English summary) **2001f:46007**

**Arslan, Bora** (*with* Goncharov, A. P.; Kocatepe, Mefharet) Sequence space representations of spaces of Whitney functions. (English summary) **2001f:46036**

**Aywa, Shem** (*with* Fourie, Jan H.) On convergence of sections of sequences in Banach spaces. (English summary) **2001b:46018**

**Berscheid, N.** Baire properties of locally convex spaces. **2001g:46007**

**Bhardwaj, Vinod K.** (*with* Singh, Niranjan) Some sequence spaces defined by $|\overline{N}, p_n|$ summability and an Orlicz function. (English summary) **2001c:40008**

— (*with* Singh, Niranjan) On some new spaces of lacunary strongly $\sigma$-convergent sequences defined by Orlicz functions. (English summary) **2001i:40001**

**Blasco, Fernando** *see* **Ansemil, José M. et al., 2001f:46007**

**Boos, Johann** (*with* Seydel, Detlef) Some remarks on invariant means and almost convergence. (English summary) **2001f:40006**

**Carroll, M. T.** Invariance of the Wilansky property. (English summary) **2001b:46019**

**Choudhary, B.** A note on boundedness of superposition operators on sequence spaces. (English summary) **2001k:47055**

— *see also* **Parashar, S. D., 2001k:40002**

**Cui, Yunan** (*with* Meng, Chenghui; Pluciennik, Ryszard) Banach-Saks property and property $(\beta)$ in Cesàro sequence spaces. (English summary) **2001m:46031**

**Deheri, G. M.** Structure of matrix transformations on Köthe sequence spaces having generalized bases. (English summary) **2001c:40009**

**De Malafosse, B.** Some properties of the Cesàro operator in the space $s_r$. (English summary) **2001h:47048**

**Demirci, Kamil** (*with* Orhan, C.) Bounded multipliers of bounded $A$-statistically convergent sequences. (English summary) **2001e:40009**

**Domański, Paweł** (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**

**Esi, Ayhan** A new sequence space defined by a modulus function. (English summary)

**Et, Mikail** On some topological properties of generalized difference sequence spaces. (English summary) **2001h:40004**

**Fourie, Jan H.** *see* **Aywa, Shem, 2001b:46018**

**Goncharov, A. P.** *see* **Arslan, Bora et al., 2001f:46036**

**Grinnell, Raymond J.** Functions preserving sequence spaces. (English summary) **2001d:40002**

**Kocatepe, Mefharet** *see* **Arslan, Bora et al., 2001f:46036**

**Kondakov, V. P.** Geometric properties of Fréchet spaces and the selection of basis sequences. (Russian. Russian summary) **2001b:46004**

**Leindler, László** An attachment to factorization of inequalities. (English summary) **2001b:26025**

**Le Mau Hai** (*with* Nguyen Van Khue; Nguyen Ha Thanh) The properties $(\Omega)$ and $(\underline{DN})$ of spaces of entire functions of bounded type. (English summary) **2001c:46038**

**López Molina, J. A.** On subspaces isomorphic to $l^q$ in interpolation of quasi Banach spaces. (English summary) **2001j:46114**

**Maddox, Ivor J.** Concepts of slow oscillation. (English summary) **2001i:46006**

**Malkowsky, Eberhard** (*with* Savaş, Ekrem) Matrix transformations in some spaces of almost summable and bounded sequences. (English summary) **2001f:40009**

— (*with* Savaş, Ekrem) Some $\lambda$-sequence spaces defined by a modulus. (English summary) **2001m:40012**

— The dual spaces of the sets of $\Lambda$-strongly convergent and bounded sequences. (English summary) **2001d:46028**

**Mamedov, Musa A.** *see* **Pehlivan, Serpil, (2001f:00031)**

**Marchena, B.** (*with* Piñeiro, C.) Absolutely $\lambda$-summable sequences lying in the range of a vector measure. I. (English summary) **2001j:46057**

**Meng, Chenghui** *see* **Cui, Yunan et al., 2001m:46031**

**Mursaleen** *see* **Ahmad, Zaheer et al., 2001m:40011**

**Nanda, Sudarsan** *see* **Tripathy, B. K., 2001j:46121**

**Napalkov, V. V.** (*with* Sapronova, G. A.) Series of exponentials in the space of sequences of finite order and type. (Russian) **2001i:30026**

**Nash-Williams, Crispin St. J. A.** (*with* White, David John) Rearrangement of vector series. I, II. (English summary) **2001k:40001**

**Natarajan, P. N.** On the algebra $(l_1, l_1)$ of infinite matrices. (English summary) **2001k:40003**

**Nguyen Ha Thanh** *see* **Le Mau Hai et al., 2001c:46038**

**Nguyen Van Khue** *see* **Le Mau Hai et al., 2001c:46038**

**Orhan, C.** *see* **Demirci, Kamil, 2001e:40009**

**Parashar, S. D.** (*with* Choudhary, B.) Matrix transformation of certain sequence spaces through matrix product. (English summary) **2001k:40002**

**Pehlivan, Serpil** (*with* Mamedov, Musa A.) Uniform statistical convergence. (English summary) (*see* **2001f:00031**)

**Piñeiro, C.** *see* **Marchena, B., 2001j:46057**

**Pluciennik, Ryszard** *see* **Cui, Yunan et al., 2001m:46031**

**Ponte, Socorro** *see* **Ansemil, José M. et al., 2001f:46007**

**Qamaruddin** *see* **Ahmad, Zaheer et al., 2001m:40011**

**Rudolf, Oliver** Hausdorff-Operatoren auf BK-Räumen und Halbgruppen linearer Operatoren. [Hausdorff operators on BK-spaces and semigroups of linear operators] **2001h:47052**

**Sapronova, G. A.** *see* **Napalkov, V. V., 2001i:30026**

**Savaş, Ekrem** *see* **Malkowsky, Eberhard, 2001f:40009** *and* **2001m:40012**

**Seydel, Detlef** *see* **Boos, Johann, 2001f:40006**

**Singh, Niranjan** *see* **Bhardwaj, Vinod K., 2001c:40008** *and* **2001i:40001**

**Soomer, Virge** On sequence spaces defined by a sequence of moduli and an extension of Kuttner's theorem. (English summary) **2001b:40008**

— Sequence spaces defined by a sequence of modulus functions and $\mathcal{X}$-nearly convergence. (English summary) **2001c:40001**

**Suantai, Suthep** (*with* Sudsukh, Chanan) Matrix transformations of Nakano vector-valued sequence space. (English summary) **2001g:46041**

**Sudsukh, Chanan** *see* **Suantai, Suthep, 2001g:46041**

**Tripathy, B. K.** (*with* Nanda, Sudarsan) Absolute value of fuzzy real numbers and fuzzy sequence spaces. (English summary) **2001j:46121**

**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125**

**Waszak, A.** A theorem on monotonicity of matrix methods of summability of double sequences. (English summary) **2001e:40010**

**White, David John** *see* **Nash-Williams, Crispin St. J. A., 2001k:40001**

**Wu, Jun De** A class of infinite matrix topological algebras. (English summary) **2001j:46067**

**Zobin, Nahum** Some remarks on quasi-equivalence of bases in Fréchet spaces. (English summary) **2001a:46005**

## 46A50 Compactness in topological linear spaces; angelic spaces, etc.

Items with secondary classifications in 46A50

**Albanese, Angela A.** On completeness and projective descriptions of weighted inductive limits of spaces of Fréchet-valued continuous functions. (English summary) **2001j:46043**
**Cascales, Bernardo** (*with* Namioka, I.; Vera, G.) The Lindelöf property and fragmentability. (English summary) **2001b:54024**
**Christol, Gilles** (*with* Mebkhout, Zoghman; Schikhof, W. H.) An application of $c$-compactness. (English summary) **2001h:46130**
**Mebkhout, Zoghman** *see* **Christol, Gilles et al., 2001h:46130**
**Namioka, I.** *see* **Cascales, Bernardo et al., 2001b:54024**
**Schikhof, W. H.** *see* **Christol, Gilles et al., 2001h:46130**
**Vera, G.** *see* **Cascales, Bernardo et al., 2001b:54024**

## 46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

**Becker, Richard Edouard** ★ Cônes convexes en analyse. (French. English and French summaries) [Convex cones in analysis] **2001c:46008**
**Brannath, W.** (*with* Schachermayer, Walter) A bipolar theorem for $L^0_+(\Omega, \mathcal{F}, \mathbf{P})$. (English summary) **2001d:46019**
**Cel, J.** Tietze-type theorem for locally nonconical convex sets. (English summary) **2001b:46013**
**(Choquet, Gustave)** *see* **Becker, Richard Edouard, 2001c:46008**
**Komuro, Naoto** Facial structure of convex sets and some applications. (*see* **2001d:00047**)
**Okon, T.** Choquet theory in metric spaces. (English summary) **2001d:46020**
**Schachermayer, Walter** *see* **Brannath, W., 2001d:46019**

Items with secondary classifications in 46A55

**Fonf, Vladimir P.** On the boundary of a polyhedral Banach space. **2001j:46013**
**Grzybowski, J.** (*with* Kaczmarek, S.; Urbański, Ryszard) General methods of constructing equivalent minimal pairs not unique up to translation. (English summary) **2001m:52001**
**Kaczmarek, S.** *see* **Grzybowski, J. et al., 2001m:52001**
**Kaufman, Robert** PCA sets and convexity. (English summary) **2001d:54031**
**Kleinschmidt, Peter** *see* **Wood, G. R. et al., 2001m:52018**
**Kulkarni, S. H.** (*with* Limaye, Balmohan V.) Boundaries and Choquet sets for real subspaces of $C(X)$. (English summary) **2001c:46044**
**Limaye, Balmohan V.** *see* **Kulkarni, S. H., 2001c:46044**
**McDowall, Stephen R.** *see* **Wood, G. R. et al., 2001m:52018**
**McGillivray, I.** Large time volume of the pinned Wiener sausage. (English summary) **2001c:60131**
**Rao, T. S. S. R. K.** Local surjective isometries of function spaces. (English summary) **2001k:46042**
**Roth, Walter** Hahn-Banach type theorems for locally convex cones. (English summary) **2001b:46008**
**Urbański, Ryszard** *see* **Grzybowski, J. et al., 2001m:52001**
**Veselý, Libor** Boundary of polyhedral spaces: an alternative proof. **2001j:46014**
**Wood, G. R.** (*with* McDowall, Stephen R.; Kleinschmidt, Peter) Constructing infinite-dimensional polytopes using Gale transforms. (English summary) **2001m:52018**

## 46A63 Topological invariants ((DN), (Ω), etc.)

**Balikov, Gurko I.** (*with* Dimitrov, Ivan P.) Some notes on Zahariuta-Vogt's conditions. (English summary) **2001e:46013**
— (*with* Dimitrov, Ivan P.) About Zahariuta-Vogt's conditions. (English summary) **2001k:46009**
**Dimitrov, Ivan P.** *see* **Balikov, Gurko I., 2001e:46013** *and* **2001k:46009**
**Le Mau Hai** (*with* Nguyen Van Khue) Some characterizations of the properties (DN) and $(\widetilde{\Omega})$. (English summary) **2001j:46004**
**Nguyen Van Khue** *see* **Le Mau Hai, 2001j:46004**

Items with secondary classifications in 46A63

**Bui Dac Tac** *see* **Nguyen Van Hao, 2001f:46058**
**Chalov, P. A.** (*with* Djakov, P. B.; Zakharyuta, V. P.) Compound invariants and embeddings of Cartesian products. (English summary) **2001d:46017**
**Djakov, P. B.** *see* **Chalov, P. A. et al., 2001d:46017**
**Domański, Paweł** (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**
— (*with* Vogt, Dietmar) The space of real-analytic functions has no basis. (English summary) **2001m:46044**
**Ito, Masatoshi[2]** On some classes of operators by Fujii and Nakamoto related to $p$-hyponormal and paranormal operators. (English summary) **2001e:47038**
**Kondakov, V. P.** The existence of bases in complemented nuclear subspaces of infinite-type power series. (Russian) **2001g:46014**
**Le Mau Hai** (*with* Pham Hien Bang) On the property $(\mathrm{LB}^\infty)$ of spaces of germs of holomorphic functions and the properties $(\widetilde{\Omega}, \overline{\widetilde{\Omega}})$ of the Hartogs domains in infinite dimension. (English summary) **2001h:46060**
**Nguyen Dinh Lan** (DFN)-valued meromorphic functions on (DFN)-spaces and the properties $(\overline{\widetilde{\Omega}})$, $(\underline{\mathrm{DN}})$. (English summary) **2001m:46098**
**Nguyen Van Hao** (*with* Bui Dac Tac) The properties $(\underline{\mathrm{DN}})$ and $(\mathrm{DN}_\omega)$ of spaces of germs of holomorphic functions. (English summary) **2001f:46058**
**Pham Hien Bang** First holomorphic cohomology group and linear topological properties. **2001m:46164**
— *see also* **Le Mau Hai, 2001h:46060**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125** *and* **2001m:46044**
**Zakharyuta, V. P.** *see* **Chalov, P. A. et al., 2001d:46017**

## 46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

Items with secondary classifications in 46A70

**Bhattacharya, D. K.** (*with* Manna, Sasadhar) Two paranorm and the set of all entire Dirichlet series. (English summary) **2001d:46038**
**Kim, Seong Sik** Farthest points and bounded 2-functionals. (English summary) **2001a:46012**
**Künzi, Hans-Peter A.** (*with* Watson, W. Stephen) A problem about Banach balls. (English summary) **2001h:46015**
**Manna, Sasadhar** *see* **Bhattacharya, D. K., 2001d:46038**
**Watson, W. Stephen** *see* **Künzi, Hans-Peter A., 2001h:46015**

## 46A80 Modular spaces

**Ambrożko, Edward** Estimation countably modulared spaces by multimodular spaces. (English summary) **2001j:46005**
**Wang, Jian[7]** (*with* Wang, Jian Yong) Relations between the Orlicz $F$-norm $\|\cdot\|_\rho$ and its parental modular $\rho$ and the inversion problem. (Chinese. English and Chinese summaries) **2001e:46014**
**Wang, Jian Yong** *see* **Wang, Jian[7], 2001e:46014**
**Waszak, A.** (*with* Żurakowski, D.) The Musielak-Orlicz relations between some modular spaces. (English summary) **2001m:46007**
**Żurakowski, D.** *see* **Waszak, A., 2001m:46007**

Items with secondary classifications in 46A80

**Ewert, Janina** On modular sequence spaces of non-absolute type. (English summary) **2001e:46010**

## 46A99 None of the above, but in this section

**Bhattacharya, S.** *see* **Lal, Shiva Narain et al., 2001k:46010** *and* **2001k:46011**
**Castillo, Jesús M. F.** On the "three-space" problem for locally quasi-convex topological groups. (English summary) **2001c:46009**
**Khots, Boris S.** $P$-spaces. **2001g:46017**
**Lal, Shiva Narain** (*with* Bhattacharya, S.; Sreedhar, C.) A note on the existence of linear 2-functionals. (English summary) **2001k:46010**
— (*with* Bhattacharya, S.; Sreedhar, C.) Best approximation, sequentially closed and complete subsets in complex 2-normed linear spaces. (English summary) **2001k:46011**
**Malčeski, Risto** *see* **Malcheski, Aleksa**
**Malcheski, Aleksa** (*with* Malčeski, Risto) Convergent sequences in $n$-normed spaces. (Macedonian. English and Macedonian summaries)
**Mascioni, Vania** On optimal lattice decompositions. (English summary) **2001f:46010**
**Mukherjee, Samir Kumar** A 3-point metric and a 2-point norm associated with a set $X$. (English summary)
**Ni, Ren Xing** *see* **Shi, Zhixian et al., 2001g:46018**
**Oncina, L.** On WCG Asplund spaces and Eberlein compacta.
**Shi, Zhixian** (*with* Ye, Xintao; Ni, Ren Xing) Nonlinear approximation in linear 2-normed spaces. (English and Chinese summaries) **2001g:46018**
**Sreedhar, C.** *see* **Lal, Shiva Narain et al., 2001k:46010** *and* **2001k:46011**
**Ye, Xintao** *see* **Shi, Zhixian et al., 2001g:46018**

Items with secondary classifications in 46A99

**Banakh, T. O.** (*with* Dobrowolski, Tadeusz; Plichko, Anatolii) The topological and Borel classification of operator images. (English summary) **2001f:57023**
**Dierolf, Susanne** (*with* Khin Aye Aye; Schröder, Karl-Heinz) Semidirect products of locally convex algebras and the three-space-problem. (English summary) **2001c:46090**
**Dobrowolski, Tadeusz** *see* **Banakh, T. O. et al., 2001f:57023**
**Gang, Jia Tai** $\alpha$-fuzzy vector spaces. (Chinese. English and Chinese summaries)
**Gorokhovik, Valentin V.** (*with* Shinkevich, Elena A.) Geometric structure and classification of infinite-dimensional halfspaces. (English summary) **2001f:52003**
**Kemper, Ralf** $p$-Banach spaces and $p$-totally convex spaces. (English summary) **2001b:46116**
— $p$-Banach spaces and $p$-totally convex spaces. II. (English summary) **2001b:46111**
**Khin Aye Aye** *see* **Dierolf, Susanne et al., 2001c:46090**
**König, Heinz J. E.** Upper envelopes of inner premeasures. (English and French summaries) **2001b:28017**
**Nowak, Marian** Lebesgue topologies on vector-valued function spaces. (English summary) **2001i:46061**
**Plichko, Anatolii** *see* **Banakh, T. O. et al., 2001f:57023**
**Ruan, Ying Bin** A generalization of Dini's theorem. (Chinese. English and Chinese summaries) **2001m:47130**
**Schröder, Karl-Heinz** *see* **Dierolf, Susanne et al., 2001c:46090**
**Shinkevich, Elena A.** *see* **Gorokhovik, Valentin V., 2001f:52003**
**Tararykova, T. V.** Adaptive inequalities with exact constants for operators that satisfy conditions of $p$-convexity or $p$-concavity type. (Russian)

# 46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

Items with secondary classifications in 46Bxx

**Benyamini, Yoav** (*with* Lindenstrauss, Joram) ★ Geometric nonlinear functional analysis. Vol. 1. (English summary) **2001b:46001**
**Lindenstrauss, Joram** *see* **Benyamini, Yoav, 2001b:46001**

## 46B03 Isomorphic theory (including renorming) of Banach spaces

**Cabello Sánchez, Félix** Maximal symmetric norms on Banach spaces. (English summary) **2001b:46012**
— (*with* Castillo, Jesús M. F.) Duality and twisted sums of Banach spaces. (English summary) **2001i:46011**

**Castillo, Jesús M. F.** *see* **Cabello Sánchez, Félix, 2001i:46011**
**Dobrovol'skiĭ, N. M.** (*with* Manokhin, E. V.) Some examples of Banach spaces and the *UH*-property. (Russian. English and Russian summaries) **2001b:46014**
**Galego, Eloi M.** How to generate new Banach spaces non-isomorphic to their Cartesian squares. (English summary) **2001b:46015**
**Knaust, H.** (*with* Odell, Edward W.; Schlumprecht, Th.) On asymptotic structure, the Szlenk index and UKK properties in Banach spaces. (English summary) **2001f:46011**
**Manokhin, E. V.** *see* **Dobrovol'skiĭ, N. M., 2001b:46014**
**Odell, Edward W.** *see* **Knaust, H. et al., 2001f:46011**
**Schlumprecht, Th.** *see* **Knaust, H. et al., 2001f:46011**
**Zippin, M.** Quotient maps with structure preserving inverses. (English summary) **2001e:46015**

Items with secondary classifications in 46B03

**Amigó, J. M.** *see* **Ferrando, J. C., 2001f:46030**
**Bandyopadhyay, Pradipta** (*with* Huang, Da; Lin, Bor-Luh; Troyanski, Stanimir) Some generalizations of locally uniform rotundity. (English summary) **2001j:46011**
**Becerra Guerrero, Julio** (*with* Rodríguez-Palacios, Ángel) Isometric reflections on Banach spaces after a paper of A. Skorik and M. Zaidenberg: "On isometric reflections in Banach spaces" [Mat. Fiz. Anal. Geom. **4** (1997), no. 1-2, 212–247; MR 99a:46025]. (English summary) **2001d:46034**
**Castillo, Jesús M. F.** (*with* García, Ricardo; Gonzalo, Raquel) Banach spaces in which all multilinear forms are weakly sequentially continuous. (English summary) **2001a:46045**
**Chaatit, Fouad** (*with* Rosenthal, Haskell P.) On differences of semi-continuous functions. (English summary) **2001k:26004**
**Dilworth, Stephen J.** (*with* Girardi, Maria; Hagler, James) Dual Banach spaces which contain an isometric copy of $L_1$. (English summary) **2001e:46016**
**Dowling, Patrick N.** On $l^\infty$ subspaces of Banach spaces. (English summary) **2001m:46026**
**Emmanuele, G.** (*with* John, Kamil) The space of compact operators contains $c_0$ when a noncompact operator is suitably factorized. **2001b:46031**
**Ferrando, J. C.** (*with* Amigó, J. M.) On copies of $c_0$ in the bounded linear operator space. (English summary) **2001f:46030**
**Freedman, Walden** (*with* Ülger, Ali) The Phillips properties. (English summary) **2001e:46020**
**García, Ricardo** *see* **Castillo, Jesús M. F. et al., 2001a:46045**
**Gasparis, I.** (*with* Leung, Denny H.) On the complemented subspaces of the Schreier spaces. (English summary) **2001j:46009**
**Girardi, Maria** *see* **Dilworth, Stephen J. et al., 2001e:46016**
**Gonzalo, Raquel** *see* **Castillo, Jesús M. F. et al., 2001a:46045**
**Hagler, James** *see* **Dilworth, Stephen J. et al., 2001e:46016**
**Hájek, Petr[1]** (*with* Troyanski, Stanimir) Analytic norms in Orlicz spaces. (English summary) **2001k:46031**
**Huang, Da** *see* **Bandyopadhyay, Pradipta et al., 2001j:46011**
**John, Kamil** *see* **Emmanuele, G., 2001b:46031**
**Leung, Denny H.** *see* **Gasparis, I., 2001j:46009**
**Lin, Bor-Luh** *see* **Bandyopadhyay, Pradipta et al., 2001j:46011**
**Popa, Nicolae** Unicity of the representation of dyadic Hardy spaces generated by a rearrangement invariant space $X$ on $[0, 1]$. **2001e:46047**
**Rodríguez-Palacios, Ángel** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Rosenthal, Haskell P.** *see* **Chaatit, Fouad, 2001k:26004**
**(Skorik, A.)** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Troyanski, Stanimir** *see* **Bandyopadhyay, Pradipta et al., 2001j:46011** *and* **Hájek, Petr[1], 2001k:46031**
**Ülger, Ali** *see* **Freedman, Walden, 2001e:46020**
**(Zaidenberg, Mikhail)** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Zhan, Da Peng** The isometric approximation problem from an infinite-dimensional $L^1$ space to a space of continuous functions. (Chinese. English and Chinese summaries) **2001c:46013**

## 46B04 Isometric theory of Banach spaces

**Banakh, T. O.** (*with* Kawamura, Kazuhiro; Sakai, Katsuro) The direct limits of the Banach-Mazur compacta. (English summary) **2001j:46006**
**Cabello Sánchez, Félix** Nearly variants of properties and ultrapowers. (English summary) **2001c:46010**
**Dilworth, Stephen J.** (*with* Girardi, Maria; Hagler, James) Dual Banach spaces which contain an isometric copy of $L_1$. (English summary) **2001e:46016**
**Dolinar, Gregor** Generalized stability of isometries. (English summary) **2001c:46011**
**Girardi, Maria** *see* **Dilworth, Stephen J. et al., 2001e:46016**
**Hagler, James** *see* **Dilworth, Stephen J. et al., 2001e:46016**
**Haydon, Richard** (*with* Levy, Mireille; Raynaud, Y.) ★ Randomly normed spaces. (English summary) **2001e:46017**
**Kawamura, Kazuhiro** *see* **Banakh, T. O. et al., 2001j:46006**
**Levy, Mireille** *see* **Haydon, Richard et al., 2001e:46017**
**Morales, José R.** On the ($k$-M) property. (Spanish. English and Spanish summaries) **2001c:46012**
**Payá-Albert, Rafael** (*with* Saleh, Yousef) Norm attaining operators from $L_1(\mu)$ into $L_\infty(\nu)$. (English summary) **2001j:46007**
**Pfitzner, Hermann** A note on asymptotically isometric copies of $l^1$ and $c_0$. (English summary) **2001m:46008**
**Rassias, Themistocles M.** Properties of isometric mappings. (English summary) **2001d:46021**
— Isometries and approximate isometries. (English summary) **2001k:46012**
**Raynaud, Y.** *see* **Haydon, Richard et al., 2001e:46017**
**Sakai, Katsuro** *see* **Banakh, T. O. et al., 2001j:46006**
**Saleh, Yousef** *see* **Payá-Albert, Rafael, 2001j:46007**
**Wolf, Reinhard Karl** Averaging distances in real quasihypermetric Banach spaces of finite dimension. (English summary) **2001f:46012**
**Zhan, Da Peng** The isometric approximation problem from an infinite-dimensional $L^1$ space to a space of continuous functions. (Chinese. English and Chinese summaries) **2001c:46013**
— Extension of isometries between some $p$-normed spaces. (Chinese. English and Chinese summaries) **2001c:46014**

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**Becerra Guerrero, Julio** (*with* Rodríguez-Palacios, Ángel) Isometric reflections on Banach spaces after a paper of A. Skorik and M. Zaidenberg: "On isometric reflections in Banach spaces" [Mat. Fiz. Anal. Geom. **4** (1997), no. 1-2, 212–247; MR 99a:46025]. (English summary) **2001d:46034**
**Cho, Chong-Man** (*with* Roh, Woo Suk) A note on $M$-ideals in certain algebras of operators. (English summary) **2001g:47123**
**Ger, Roman** (*with* Kocięga, Barbara) Isometries and a generalized Cauchy equation. (English summary) **2001j:39036**
**Kocięga, Barbara** *see* **Ger, Roman, 2001j:39036**
**Li, Chi-Kwong** Norms, isometries, and isometry groups. **2001c:46034**
**Ma, Yu Mei** The Aleksandrov problem for unit distance preserving mapping. (English summary) **2001k:46006**
**Mbekhta, Mostafa** (*with* Skhiri, Haïkel) Partial isometries: factorization and connected components. (English summary) **2001m:47026**
**Randrianantoanina, Beata** On isometric stability of complemented subspaces of $L_p$. (English summary) **2001a:46029**
**Rao, T. S. S. R. K.** Points of weak*-norm continuity in the dual unit ball of injective tensor product spaces. (English summary) **2001j:46023**
**Rodríguez-Palacios, Ángel** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Roh, Woo Suk** *see* **Cho, Chong-Man, 2001g:47123**
**Shvidkoy, Roman V.** Geometric aspects of the Daugavet property. (English summary) **2001h:46019**
**Skhiri, Haïkel** *see* **Mbekhta, Mostafa, 2001m:47026**
**(Skorik, A.)** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Tabor, Jacek** Stability of surjectivity. (English summary) **2001f:47105**
**Veselý, Libor** Boundary of polyhedral spaces: an alternative proof. **2001j:46014**
**(Zaidenberg, Mikhail)** *see* **Becerra Guerrero, Julio, 2001d:46034**

## 46B07 Local theory of Banach spaces

**Basallote, Manuela** (*with* Díaz-Madrigal, Santiago) Finite representability of operators in the sense of Bellenot. (English summary) **2001b:46016**
**Defant, Andreas** (*with* Junge, Marius) A vector-valued Grothendieck inequality with an application to $(p, q)$-completely bounded operators. (English summary) **2001c:46015**
**Díaz-Madrigal, Santiago** *see* **Basallote, Manuela, 2001b:46016**
**Habala, Petr** (*with* Tomczak-Jaegermann, Nicole) Finite representability of $l_p$ in quotients of Banach spaces. (English summary) **2001m:46009**
**Junge, Marius** *see* **Defant, Andreas, 2001c:46015**
**Litvak, A. E.** Kahane-Khinchin's inequality for quasi-norms. (English summary) **2001f:46013**
**Tomczak-Jaegermann, Nicole** *see* **Habala, Petr, 2001m:46009**

Items with secondary classifications in 46B07

**Behrends, Ehrhard** (*with* Katkova, Olga; Vishnyakova, Anna) A note on $l^p$-norms. (English summary) **2001k:46028**
**Bombal, Fernando** (*with* Villanueva Díez, Ignacio) On the Dunford-Pettis property of the tensor product of $C(K)$ spaces. (English summary) **2001h:46024**
**Carl, Bernd** (*with* Kyrezi, Ioanna; Pajor, Alain) Metric entropy of convex hulls in Banach spaces. (English summary) **2001c:46019**
**Defant, Andreas** (*with* Domański, Paweł; Mastyło, Mieczysław) Extension and splitting theorems for Fréchet spaces of type 2. (English summary) **2001d:46006**
**Domański, Paweł** *see* **Defant, Andreas et al., 2001d:46006**
**Guo, Qi[1]** (*with* Kaijser, Sten) On the distance between convex bodies. (English summary) **2001g:52007**
**Kaijser, Sten** *see* **Guo, Qi[1], 2001g:52007**
**Katkova, Olga** *see* **Behrends, Ehrhard et al., 2001k:46028**
**Kvaratskheliya, V. V.** (*with* Tarieladze, V. I.) The structure of summable sequences and $p$-summing operators. (English summary) **2001g:46019**
**Kyrezi, Ioanna** *see* **Carl, Bernd et al., 2001c:46019**
**López Molina, J. A.** (*with* Sánchez Pérez, E. A.) On operator ideals related to $(p, \sigma)$-absolutely continuous operators. (English summary) **2001g:47125**
**Mastyło, Mieczysław** *see* **Defant, Andreas et al., 2001d:46006**
**Matoušek, Jiří** On embedding trees into uniformly convex Banach spaces. (English summary) **2001b:46028**
**Matsuda, Minoru** Remarks on GSP sets in Banach spaces. (English summary) **2001k:46023**
**Pajor, Alain** *see* **Carl, Bernd et al., 2001c:46019**
**Sánchez Pérez, E. A.** *see* **López Molina, J. A., 2001g:47125**
**Tarieladze, V. I.** *see* **Kvaratskheliya, V. V., 2001g:46019**
**Villanueva Díez, Ignacio** *see* **Bombal, Fernando, 2001h:46024**
**Vishnyakova, Anna** *see* **Behrends, Ehrhard et al., 2001k:46028**
**Wojtaszczyk, P.** Greedy algorithm for general biorthogonal systems. (English summary) **2001k:46017**
**Zippin, M.** Quotient maps with structure preserving inverses. (English summary) **2001e:46015**

## 46B08 Ultraproduct techniques in Banach space theory [see also 46M07]

**Su, Zhi Yong** Ultrapowers and their application in Banach spaces. (Chinese. English and Chinese summaries) **2001a:46007**

Items with secondary classifications in 46B08

**Basallote, Manuela** (*with* Díaz-Madrigal, Santiago) Finite representability of operators in the sense of Bellenot. (English summary) **2001b:46016**

**Cabello Sánchez, Félix** Nearly variants of properties and ultrapowers. (English summary) **2001c:46010**
**Díaz-Madrigal, Santiago** *see* **Basallote, Manuela, 2001b:46016**

## 46B09 Probabilistic methods in Banach space theory [see also 60Bxx]

### Items with secondary classifications in 46B09

**Astashkin, S. V.** Systems of random variables equivalent in distribution to the Rademacher systems, and the $\mathcal{X}$-closed representability of Banach pairs. (Russian. Russian summary) **2001g:60034**
**Chen, Zeqian** (*with* Ouyang, Caiheng) Vector-valued holomorphic functions on the complex ball and the analytic Radon-Nikodym property. (English summary) **2001e:46065**
**Cheng, Ri-yan** (*with* Gan, Shi Xin) Two-parameter vector-valued martingales and geometrical properties of Banach spaces. (English summary) **2001g:60099**
— (*with* Gan, Shi Xin) A new characterization of $p$-smoothable spaces. (English summary) **2001c:60072**
**Ezzaki, Fatima** SLLN for adapted sequences. (English summary) **2001i:60006**
**Gan, Shi Xin** *see* **Cheng, Ri-yan, 2001c:60072; 2001g:60099** *and* **Ye, Chen et al., 2001i:60078**
**Geiss, Stefan** A general contraction principle for vector-valued martingales. (English summary) **2001g:60008**
**Giannopoulos, A. A.** (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**
**Haydon, Richard** (*with* Levy, Mireille; Raynaud, Y.) ★ Randomly normed spaces. (English summary) **2001e:46017**
**Junge, Marius** Embeddings of non-commutative $L_p$-spaces into non-commutative $L_1$-spaces, $1 < p < 2$. (English summary) **2001f:46098**
**Kelly, Brian P.** A dimension-free weak-type estimate for operators on UMD-valued functions. (English summary) **2001i:43005**
**Levy, Mireille** *see* **Haydon, Richard et al., 2001e:46017**
**Litvak, A. E.** Kahane-Khinchin's inequality for quasi-norms. (English summary) **2001f:46013**
**Liu, Pei-de** (*with* Saksman, Eero; Tylli, Hans-Olav) Boundedness of the $q$-mean-square operator on vector-valued analytic martingales. (English summary) **2001a:60052**
**Martínez, Teresa** (*with* Torrea Hernández, José Luis) Operator-valued martingale transforms. (English summary) **2001h:60076**
**Milman, Vitali D.** *see* **Giannopoulos, A. A., 2001m:28001**
**Moltó, Aníbal** (*with* Orihuela, José; Troyanski, Stanimir; Valdivia, Manuel) Kadec and Krein-Milman properties. (English and French summaries) **2001i:46018**
**Orihuela, José** *see* **Moltó, Aníbal et al., 2001i:46018**
**Ouyang, Caiheng** *see* **Chen, Zeqian, 2001e:46065**
**Raynaud, Y.** *see* **Haydon, Richard et al., 2001e:46017**
**Saksman, Eero** *see* **Liu, Pei-de et al., 2001a:60052**
**Torrea Hernández, José Luis** *see* **Martínez, Teresa, 2001h:60076**
**Troyanski, Stanimir** *see* **Moltó, Aníbal et al., 2001i:46018**
**Tylli, Hans-Olav** *see* **Liu, Pei-de et al., 2001a:60052**
**Valdivia, Manuel** *see* **Moltó, Aníbal et al., 2001i:46018**
**Ye, Chen** (*with* Gan, Shi Xin; Zhang, Feng[2]) Davis's inequalities for two-parameter Banach space valued strong martingales and geometrical properties of Banach spaces. (English summary) **2001i:60078**
**Zhang, Feng[2]** *see* **Ye, Chen et al., 2001i:60078**

## 46B10 Duality and reflexivity [see also 46A25]

**Agrawal, Sushama** (*with* Kulkarni, S. H.) Dual spaces of quaternion normed linear spaces and reflexivity. (English summary) **2001k:46013**
**Benítez, Julio** (*with* Montesinos Santalucía, Vicente) On restricted weak upper semicontinuous set valued mappings and reflexivity. (Italian summary) **2001c:46016**
**Kulkarni, S. H.** *see* **Agrawal, Sushama, 2001k:46013**
**Montesinos Santalucía, Vicente** *see* **Benítez, Julio, 2001c:46016**
**Ostrovskiĭ, M. I.** Completions with respect to total nonnorming subspaces. (English, Russian and Ukrainian summaries) **2001b:46017**
**Qiu, Jing Hui** A cone characterization of reflexive Banach spaces. (English summary) **2001m:46010**

### Items with secondary classifications in 46B10

**Cabello Sánchez, Félix** Maximal symmetric norms on Banach spaces. (English summary) **2001i:46012**
**Calvert, Bruce** (*with* Fitzpatrick, S. P.) Erratum: "In a nonreflexive space the subdifferential is not onto" [Math. Z. **189** (1985), no. 4, 555–560; MR 87c:46021]. **2001m:46015**
**Dirr, Gunter** (*with* Väth, Martin) Continuity of near-duality maps and characterizations of ideal spaces of measurable functions. (English summary) **2001h:46037**
**Fitzpatrick, S. P.** *see* **Calvert, Bruce, 2001m:46015**
**He, Renyi** (*with* Zhang, Guang) The dual characteristics of $LK - UR$ and $K - SS$ spaces. (English summary) **2001f:46020**
**Iovino, José** Stable models and reflexive Banach spaces. (English summary) **2001c:03068**
**Knaust, H.** (*with* Odell, Edward W.; Schlumprecht, Th.) On asymptotic structure, the Szlenk index and UKK properties in Banach spaces. (English summary) **2001f:46011**
**Kundu, Subiman** (*with* Raha, A. B.) The dual of $C_b(X)$. (English summary) **2001b:46041**
**Lowen, Robert** (*with* Sioen, M.) Approximations in functional analysis. (English summary) **2001c:46035**
**Matoušková, Eva** Extensions of continuous and Lipschitz functions. (English summary) **2001c:54009**
**Odell, Edward W.** *see* **Knaust, H. et al., 2001f:46011**
**Pata, Vittorino** (*with* Zheng, Ken Xiaojun; Zucchi, Adele) On the reflexivity of operator algebras with isometric functional calculus. (English summary) **2001f:47113**
**Raha, A. B.** *see* **Kundu, Subiman, 2001b:46041**
**Schlumprecht, Th.** *see* **Knaust, H. et al., 2001f:46011**
**Simons, Stephen** Maximal monotone multifunctions of Brøndsted-Rockafellar type. (English summary) **2001b:47100**
**Sioen, M.** *see* **Lowen, Robert, 2001c:46035**
**Ülger, Ali** Central elements of $A^{**}$ for certain Banach algebras $A$ without bounded approximate identities. (English summary) **2001b:46082**
**Väth, Martin** *see* **Dirr, Gunter, 2001h:46037**
**Vershinin, R. V.** Embedding of operator ranges and the reflexivity of Banach spaces. (Russian. English and Ukrainian summaries) **2001a:47006**
**Zhang, Guang** *see* **He, Renyi, 2001f:46020**
**Zheng, Ken Xiaojun** *see* **Pata, Vittorino et al., 2001f:47113**
**Zucchi, Adele** *see* **Pata, Vittorino et al., 2001f:47113**

## 46B15 Summability and bases [see also 46A35]

**Aizpuru Tomás, Antonio** *see* **Pérez Fernández, Francisco Javier et al., 2001j:46010**
**Antosik, Piotr** Equivanishing sequences of mappings. (English summary) **2001j:46008**
**Aywa, Shem** (*with* Fourie, Jan H.) On convergence of sections of sequences in Banach spaces. (English summary) **2001b:46018**
— (*with* Fourie, Jan H.) On summing multipliers and applications. (English summary) **2001k:46014**
**Behrends, Ehrhard** Lectures on Rosenthal's $l^1$-theorem. (English summary) **2001k:46015**
**Benítez-Trujillo, F.** *see* **Pérez Fernández, Francisco Javier et al., 2001j:46010**
**Cabello Sánchez, Alberto** (*with* Cabello Sánchez, Félix) Maximal norms on Banach spaces of continuous functions. Corrigendum to: "Orthonormal systems in Banach spaces and their applications" [Math. Proc. Cambridge Philos. Soc. **79** (1976), no. 3, 493–510; MR 53 #6291] by N. J. Kalton and G. V. Wood. **2001c:46017**
**Cabello Sánchez, Félix** *see* **Cabello Sánchez, Alberto, 2001c:46017**
**Cao, Huai Xin** Bessel sequences in a Hilbert space. (English and Chinese summaries) **2001h:46003**
**Carroll, M. T.** Invariance of the Wilansky property. (English summary) **2001b:46019**
**Ferrando, J. C.** On a theorem of Kwapień. (English summary) **2001m:46011**
**Fourie, Jan H.** *see* **Aywa, Shem, 2001b:46018** *and* **2001k:46014**
**Gasparis, I.** (*with* Leung, Denny H.) On the complemented subspaces of the Schreier spaces. (English summary) **2001j:46009**
**(Kalton, N. J.)** *see* **Cabello Sánchez, Alberto, 2001c:46017**
**Kvaratskheliya, V. V.** (*with* Tarieladze, V. I.) The structure of summable sequences and $p$-summing operators. (English summary) **2001g:46019**
— *see also* **Vakhaniya, N. N.**
**Leung, Denny H.** *see* **Gasparis, I., 2001j:46009**
**Longstaff, W. E.** (*with* Panaia, Oreste) $\mathcal{J}$-subspace lattices and subspace M-bases. (English summary) **2001g:46020**
**Meng, Bin** *see* **Zhou, Jia Yun et al., 2001g:46021**
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**Dowling, Patrick N.** On $l^\infty$ subspaces of Banach spaces. (English summary) **2001m:46026**
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## 46B28 Spaces of operators; tensor products; approximation properties [see also 46A32, 46M05, 47L05, 47L20]

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**Amigó, J. M.** *see* **Ferrando, J. C., 2001f:46030**
**Bombal, Fernando** (*with* Villanueva Díez, Ignacio) On the Dunford-Pettis property of the tensor product of $C(K)$ spaces. (English summary) **2001h:46024**
**Cabello Sánchez, Félix** (*with* García, Ricardo; Villanueva Díez, Ignacio) On a question of Pełczyński about multilinear operators. (English summary) **2001m:46027**
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**Emmanuele, G.** (*with* John, Kamil) The space of compact operators contains $c_0$ when a noncompact operator is suitably factorized. **2001b:46031**
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**Floret, Klaus** Natural norms on symmetric tensor products of normed spaces. (English summary) **2001g:46038**
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**González, Manuel** (*with* Gutiérrez del Alamo, Joaquín M.) Polynomials on Schreier's space. (English summary) **2001h:46025**
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## 46B40 Ordered normed spaces [see also 46A40, 46B42]

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**Komuro, Naoto** Ordered norm in partially ordered linear space. (English summary) **2001j:46024**
**Polyrakis, Ioannis A.** Spaces with dual order-isomorphic to $l_1$. (English summary) **2001g:46039**

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## 46B42 Banach lattices [see also 46A40, 46B40]

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**Chen, Shu Tao** *see* **Gong, Yanping et al., 2001f:46031**
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## 46B45 Banach sequence spaces [see also 46A45]

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**Bian, Shu Rong** *see* **Wang, Ting Fu et al., 2001b:46035** *and* **2001d:46030**
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**Mastyło, Mieczysław** *see* **Maligranda, Lech, 2001h:46027**
**Meng, Chenghui** *see* **Cui, Yunan et al., 2001m:46031**
**Pérez Fernández, Francisco Javier** *see* **Aizpuru Tomás, Antonio, 2001e:46029**
**Płuciennik, Ryszard** (*with* Teng, Yan Mei; Wang, Ting Fu) Points of upper and lower semi-continuity of supporting map in Orlicz sequence spaces equipped with the Orlicz norm. **2001g:46040**
— *see also* **Cui, Yunan et al., 2001m:46031**
**Ramanujan, M. S.** *see* **Djakov, P. B., 2001k:46029**
**Saito, Kichi-Suke** (*with* Kato, Mikio; Takahashi, Yasuji) Absolute norms on $\mathbf{C}^n$. (English summary) **2001m:46034**
**Savaş, Ekrem** Strongly almost convergent sequences defined by Orlicz functions. (English summary)
**Shi, Zhong Rui** Some results related to metric projection in Orlicz sequence spaces. (English summary) **2001d:46029**
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**Suantai, Suthep** (*with* Sudsukh, Chanan) Matrix transformations of Nakano vector-valued sequence space. (English summary) **2001g:46041**
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**Takahashi, Yasuji** *see* **Saito, Kichi-Suke et al., 2001m:46034**
**Tao, Zhang** *see* **Cui, Yunan et al., 2001e:46030**
**Teng, Yan Mei** *see* **Wang, Ting Fu et al., 2001b:46035; 2001d:46030** *and* **Płuciennik, Ryszard et al., 2001g:46040**
**Thompson, H. Bevan** *see* **Cui, Yunan, 2001f:46032**
**Troyanski, Stanimir** *see* **Hájek, Petr[1], 2001k:46031**
**Vishnyakova, Anna** *see* **Behrends, Ehrhard et al., 2001k:46028**
**Wang, Li Jie[2]** *see* **Wang, Ting Fu et al., 2001c:46032**
**Wang, Shushi** Exposed and smooth points of $c_0(\Gamma, X)$ with Day's norm. (English and Chinese summaries) **2001f:46035**
**Wang, Ting Fu** (*with* Teng, Yan Mei; Bian, Shu Rong) On the complex locally uniform rotundity of Musielak-Orlicz sequence spaces. (English summary) **2001b:46035**
— (*with* Hao, Cui-xia; Wang, Li Jie[2]) Musielak-Orlicz sequence spaces $h_M$ are weakly Banach-Saks spaces. (English and Chinese summaries) **2001c:46032**
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**Aizpuru Tomás, Antonio** *see* **Pérez Fernández, Francisco Javier et al., 2001j:46010**

**Aywa, Shem** (*with* Fourie, Jan H.) On summing multipliers and applications. (English summary) **2001k:46014**
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**Blasco, Fernando** Quasinormability of vector valued sequence spaces. (English summary) **2001d:46015**
**Bryskin, I. B.** (*with* Lelond, O. V.; Seměnov, E. M.) Multipliers of the Fourier-Haar series. (Russian. Russian summary) **2001i:42046**
**Carroll, M. T.** Invariance of the Wilansky property. (English summary) **2001b:46019**
**Castillo, Jesús M. F.** (*with* García, Ricardo; Gonzalo, Raquel) Banach spaces in which all multilinear forms are weakly sequentially continuous. (English summary) **2001a:46045**
**Cui, Yunan** (*with* Hudzik, Henryk; Li, Yanhong) On the García-Falset coefficient in some Banach sequence spaces. **2001h:46009**
**Defant, Andreas** (*with* López Molina, J. A.; Rivera Ortún, María José) On Pitt's theorem for operators between scalar and vector-valued quasi-Banach sequence spaces. (English summary) **2001e:46009**
**Ewert, Janina** On modular sequence spaces of non-absolute type. (English summary) **2001e:46010**
**Fourie, Jan H.** *see* **Aywa, Shem, 2001k:46014**
**García, Ricardo** *see* **Castillo, Jesús M. F. et al., 2001a:46045**
**Gonzalo, Raquel** *see* **Castillo, Jesús M. F. et al., 2001a:46045**
**Hudzik, Henryk** *see* **Cui, Yunan et al., 2001h:46009**
**Jameson, G. J. O.** (*with* Lashkaripour, R.) Lower bounds of operators on weighted $l_p$ spaces and Lorentz sequence spaces. (English summary) **2001m:47058**
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**Li, Yanhong** *see* **Cui, Yunan et al., 2001h:46009**
**Liang, Zhao** *see* **Wang, Quandi et al., 2001h:46043**
**Liao, Jun Jun** (*with* Wu, Cong Xin) On the product theorems of $(\lambda, \mu)$. (Chinese. English and Chinese summaries) **2001a:46049**
**López Molina, J. A.** *see* **Defant, Andreas et al., 2001e:46009**
**Malkowsky, Eberhard** (*with* Rakočević, Vladimir) The measure of noncompactness of linear operators between spaces of $m$th-order difference sequences. (English summary) **2001d:47043**
— (*with* Rakočević, Vladimir) An introduction into the theory of sequence spaces and measures of noncompactness. **2001i:46010**
**Pérez Fernández, Francisco Javier** (*with* Benítez-Trujillo, F.; Aizpuru Tomás, Antonio) Characterizations of completeness of normed spaces through weakly unconditionally Cauchy series. (English summary) **2001j:46010**
**Rakočević, Vladimir** *see* **Malkowsky, Eberhard, 2001d:47043** *and* **2001i:46010**
**Rivera Ortún, María José** *see* **Defant, Andreas et al., 2001e:46009**
**Rudolf, Oliver** Hausdorff-Operatoren auf BK-Räumen und Halbgruppen linearer Operatoren. [Hausdorff operators on BK-spaces and semigroups of linear operators] **2001h:47052**
**Seměnov, E. M.** *see* **Bryskin, I. B. et al., 2001i:42046**
**Suantai, Suthep** Matrix transformations of some vector-valued sequence spaces. **2001h:40011**
**Wang, Quandi** (*with* Liang, Zhao; Wang, Ting Fu) On CLUR points of Orlicz spaces. (English summary) **2001h:46043**
**Wang, Ting Fu** *see* **Wang, Quandi et al., 2001h:46043**
**Waszak, A.** A theorem on monotonicity of matrix methods of summability of double sequences. (English summary) **2001e:40010**
**Wu, Cong Xin** *see* **Liao, Jun Jun, 2001a:46049**
**Wu, Jun De** A class of infinite matrix topological algebras. (English summary) **2001j:46067**

## 46B50 Compactness in Banach (or normed) spaces

**Mohebi, H.** Some results on quasi-Chebyshev subspaces. (English summary) **2001k:46032**

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**Carl, Bernd** (*with* Kyrezi, Ioanna; Pajor, Alain) Metric entropy of convex hulls in Banach spaces. (English summary) **2001c:46019**
**Erzakova, N. A.** Measures of noncompactness in the investigation of inequalities. (Russian) **2001k:46044**
**Florescu, Liviu C.** Weak compactness results on $L^1$. **2001m:46062**
**Kyrezi, Ioanna** *see* **Carl, Bernd et al., 2001c:46019**
**Pajor, Alain** *see* **Carl, Bernd et al., 2001c:46019**

## 46B70 Interpolation between normed linear spaces [see also 46M35]

**Cwikel, Michael** (*with* Gulisashvili, Archil) Interpolation on families of characteristic functions. (English summary) **2001c:46033**
**Gulisashvili, Archil** *see* **Cwikel, Michael, 2001c:46033**
**Xu, Quanhua** Brownian martingales and some new results on interpolation of Hardy spaces. (English summary) **2001b:46036**

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**Bento, A. J. G.** Interpolation of compact non-linear operators. (English summary) **2001e:46127**
**Carro, María J.** (*with* Nikolova, Lyudmila Ĭ.) Real interpolation for families of Banach spaces and the compactness property. **2001f:46109**
**Chen, Wengu** (*with* Hu, Guoen; Lu, Shanzhen) Uniform estimates for multilinear oscillatory singular integral operators. (English summary) **2001b:42013**
**Defant, Andreas** (*with* Michels, Carsten) A complex interpolation formula for tensor products of vector-valued Banach function spaces. (English summary) **2001d:46103**
**Evans, William Desmond** (*with* Opic, Bohumír) Real interpolation with logarithmic functors and reiteration. (English summary) **2001i:46115**
**Harcharras, Asma** Fourier analysis, Schur multipliers on $S^p$ and non-commutative $\Lambda(p)$-sets. (English summary) **2001f:43004**
**Hu, Guoen** *see* **Chen, Wengu et al., 2001b:42013**
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**Michels, Carsten** *see* **Defant, Andreas, 2001d:46103**
**Nikolova, Lyudmila Ĭ.** *see* **Carro, María J., 2001f:46109**
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**Watbled, Frédérique** Complex interpolation of a Banach space with its dual. (English summary) **2001j:46116**

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**Brzdęk, Janusz** On the isosceles orthogonally exponential mappings. (English summary) **2001a:46017**
**Cheng, Guo Sheng** (*with* Pen, Ji Gen) Convergence in inclusion degree spaces. (Chinese. English and Chinese summaries) **2001i:46028**
**Cook, Thurlow A.** *see* **Olubummo, Yewande, 2001a:46018**
**Dalby, Tim** Relationships between properties that imply the weak fixed point property. (English summary) **2001m:46035**
**Drewnowski, Lech** Recent developments of some ideas and results of Orlicz on unconditional convergence. (English summary) **2001d:46031**
**Elumalai, S.** (*with* Souruparani, Mercy) A characterization of best approximation and the operators in linear 2-normed spaces. (English summary) **2001m:46036**
**Gutman, A. E.** Banach fiberings in the theory of lattice-normed spaces. (Russian. Russian summary) **2001k:46033**
**Ibragimov, M. M.** A relation between the SFS-space and a base-norm space. (Russian. English and Uzbek summaries) **2001m:46037**
**Li, Chi-Kwong** Norms, isometries, and isometry groups. **2001c:46034**
**Lindenstrauss, Joram** (*with* Matoušková, Eva; Preiss, David) Lipschitz image of a measure-null set can have a null complement. (English summary) **2001d:46032**
**Liu, Shun Bao** *see* **Xuan, Heng Nong, 2001m:46040**
**Lowen, Robert** (*with* Sioen, M.) Approximations in functional analysis. (English summary) **2001c:46035**
**Majer, Pietro** (*with* Mortola, Stefano; Prodi, Giovanni) Inclusions of Banach spaces. (English summary) **2001b:46037**
**Matoušková, Eva** *see* **Lindenstrauss, Joram et al., 2001d:46032**
**Mendelson, S.** $l$-norm and its application to learning theory. (English summary) **2001m:46038**
**Miculescu, Radu** Equivalent definitions for a Lipschitz cone. (English summary) **2001m:46039**
**Mortola, Stefano** *see* **Majer, Pietro et al., 2001b:46037**
**Olubummo, Yewande** (*with* Cook, Thurlow A.) The predual of an order-unit Banach space. (English summary) **2001a:46018**
**Pen, Ji Gen** *see* **Cheng, Guo Sheng, 2001i:46028**
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**Preiss, David** *see* **Lindenstrauss, Joram et al., 2001d:46032**
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**Rizvi, Syed Mohd.** (*with* White, Albert George, Jr.) Strict convexity and 2-semi inner products. (English summary)
**Sioen, M.** *see* **Lowen, Robert, 2001c:46035**
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**Stuart, Christopher E.** Normed barrelled spaces. **2001d:46033**
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**White, Albert George, Jr.** *see* **Rizvi, Syed Mohd.**
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**Ali, Sayel A.** (*with* Al-Jarrah, Radwan) Best approximation of finite sets in normed linear spaces. (English summary) **2001g:41051**
**Al-Jarrah, Radwan** *see* **Ali, Sayel A., 2001g:41051**
**Banakh, T. O.** (*with* Dobrowolski, Tadeusz; Plichko, Anatoliĭ) The topological and Borel classification of operator images. (English summary) **2001f:57023**
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**Bhattacharya, S.** *see* **Lal, Shiva Narain et al., 2001k:46010** *and* **2001k:46011**
**Burachik, Regina S.** *see* **Butnariu, Dan et al., 2001b:90050**
**Butnariu, Dan** (*with* Iusem, Alfredo Noel; Burachik, Regina S.) Iterative methods of solving stochastic convex feasibility problems and applications. (English summary) **2001b:90050**
**Cho, Myung Hyun** Continuous selections under weaker separation axioms and reflexive Banach spaces. (English summary) **2001a:54026**
**Dekanov, S. Ya.** (*with* Mikhalin, G. A.) Generalization of a theorem of the Rogosinskis. (Ukrainian. English and Ukrainian summaries) **2001h:40010**
**Dindoš, Martin** (*with* Martišovitš, Ilja; Šalát, Tibor) Remarks on infinite series in linear normed spaces. (English summary) **2001h:40002**
**Dobrovol'skiĭ, N. M.** (*with* Manokhin, E. V.; Rebrova, I. Yu.; Akkuratova, S. V.) On some properties of normed spaces and normed algebras of lattices. (Russian. English and Russian summaries) **2001e:65037**
**Dobrowolski, Tadeusz** (*with* Kulesza, John) The topology of a subset of $l_p$ as $p$ is varied. (English summary) **2001e:54056**
— *see also* **Banakh, T. O. et al., 2001f:57023**
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**Dragomir, Sever Silvestru** Some characterization of best approximants in normed linear spaces. (English summary) **2001k:41036**
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**Ganiev, I. G.** Measurable bundles of Boolean algebras. (Russian. English and Uzbek summaries) **2001e:46068**
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**Hieber, Matthias** Operator valued Fourier multipliers. **2001b:42010**
**Hjorth, Greg** Actions by the classical Banach spaces. **2001h:03088**
**Hunt, Brian R.** (*with* Kaloshin, Vadim Yu.) Regularity of embeddings of infinite-dimensional fractal sets into finite-dimensional spaces. (English summary) **2001a:28009**
**Iusem, Alfredo Noel** *see* **Butnariu, Dan et al., 2001b:90050**
**Jaming, Philippe** (*with* Moran, William) Tensor products and $p$-induction of representations on Banach spaces. (English summary) **2001g:22008**
**Japón Pineda, María A.** *see* **Domínguez Benavides, Tomás et al., 2001f:47095**
**Kaloshin, Vadim Yu.** *see* **Hunt, Brian R., 2001a:28009**
**Kemper, Ralf** $p$-Banach spaces and $p$-totally convex spaces. II. (English summary) **2001i:46111**
**Kiriakouli, P. Ch.** Characterizations of spreading models of $l^1$. (English summary) **2001e:46040**
**Kisil, Vladimir V.** Wavelets in Banach spaces. (English summary) **2001c:43013**
**Kortezov, Ivaylo S.** Fragmentability and cardinal invariants. (English summary) **2001b:54005**
**Kulesza, John** *see* **Dobrowolski, Tadeusz, 2001e:54056**
**Lai, Chun Hui** Properties of complete spherical sets. (Chinese. English and Chinese summaries)
**Lal, Shiva Narain** (*with* Bhattacharya, S.; Sreedhar, C.) A note on the existence of linear 2-functionals. (English summary) **2001k:46010**
— (*with* Bhattacharya, S.; Sreedhar, C.) Best approximation, sequentially closed and complete subsets in complex 2-normed linear spaces. (English summary) **2001k:46011**
**Lewicki, Grzegorz** On minimal projections in $l_\infty^{(n)}$. (English summary) **2001a:41048**
**Li, Gang** (*with* Ma, Yu Mei) The Mazur-Ulam theorem for $F$-normed spaces. (Chinese. English and Chinese summaries) **2001g:46009**
**Lyudkovskiĭ, S. V.** Non-Archimedean free Banach spaces. (Russian. English and Russian summaries)
**Ma, Jian** Hölder dual spaces for Banach spaces and Hölder dual operators of nonlinear Hölder operators. (Chinese. English and Chinese summaries) **2001g:46088**
**Ma, Yu Mei** *see* **Li, Gang, 2001g:46009**
**Mackey, Michael T.** The Grassmannian manifold associated to a bounded symmetric domain. **2001h:32035**
**Malčeski, Risto** Strong convex $n$-normed spaces. (English and Macedonian summaries) **2001k:46007**
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**Malcheski, Aleksa** (*with* Malčeski, Risto) Convergent sequences in $n$-normed spaces. (Macedonian. English and Macedonian summaries)
**Manokhin, E. V.** *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
**Martišovitš, Ilja** *see* **Dindoš, Martin et al., 2001h:40002**
**Matsumoto, Toshiko** (*with* Watanabe, Seiji) Small bound isomorphisms of the domain of a closed $*$-derivation. (English summary) **2001e:46098**
**Mikhalin, G. A.** *see* **Dekanov, S. Ya., 2001h:40010**
**Moraes, Luiza Amália** *see* **Galindo, Pablo et al., 2001e:46080**
**Moran, William** *see* **Jaming, Philippe, 2001g:22008**
**Mujica, Jorge** *see* **Galindo, Pablo et al., 2001e:46080**
**Mukherjee, Samir Kumar** A 3-point metric and a 2-point norm associated with a set $X$. (English summary)
**Plichko, Anatolii** *see* **Banakh, T. O. et al., 2001f:57023**
**Pulgarín, Antonio A.** Characterization of dual extensions in the category of Banach spaces. (English and Spanish summaries) **2001b:46117**
**Rebrova, I. Yu.** *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
**Šalát, Tibor** *see* **Dindoš, Martin et al., 2001h:40002**
**Skof, Fulvia** Use of stability to select deeply characteristic properties of some function classes. (English and Italian summaries) **2001m:39075**
**Sreedhar, C.** *see* **Lal, Shiva Narain et al., 2001k:46010** *and* **2001k:46011**
**Tabor, Jacek** Ideally convex sets and Hyers theorem. **2001g:39063**
**Tsar'kov, I. G.** Extension of Hilbert-valued Lipschitz mappings. (Russian. Russian summary) **2001d:46045**
**Verdoodt, Ann** A method for constructing orthonormal bases for non-Archimedean Banach spaces of continuous functions. (English summary) **2001g:46161**
**Volauf, Peter** On measures with values in partially ordered spaces. (English summary) **2001k:46073**
**Watanabe, Seiji** *see* **Matsumoto, Toshiko, 2001e:46098**
**Xiao, Jian Zhong** Compactness and completeness of fuzzy normed linear spaces. (Chinese. English and Chinese summaries) **2001h:46133**
**Zhang, Min Xian** Uniform convexity in probabilistic normed spaces. (Chinese. English and Chinese summaries)

## 46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

### 46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

**Benz, Walter** Elliptic distances in Hilbert spaces. (English summary) **2001b:46038**
— Lorentz-Minkowski distances in Hilbert spaces. (English summary) **2001e:46032**
**Budaev, V. D.** On the Hilbert inequality for a one-parameter family of functions. (Russian. Russian summary) **2001m:46041**
**Cho, Yeol Je** *see* **Dragomir, Sever Silvestru et al., 2001h:46028**
**Comănescu, D.** *see* **Dragomir, Sever Silvestru et al., 2001h:46028**
**Ding, Xia Xi** (*with* Luo, Peizhu) Weak convergence of some series. (English summary) **2001m:46042**
**Dragomir, Sever Silvestru** (*with* Mond, B.) On the Boas-Bellman generalization of Bessel's inequality in inner product spaces. (English summary) **2001g:46043**
— (*with* Comănescu, D.; Cho, Yeol Je; Kim, Seong Sik) On Toricelli's problem in inner product spaces. **2001h:46028**
— On the Cauchy-Buniakowsky-Schwartz's inequality for sequences in inner product spaces. (English summary) **2001e:46033**
**Honda, Aoi** *see* **Takahasi, Sin-Ei et al., 2001j:46026**
**Kim, Seong Sik** *see* **Dragomir, Sever Silvestru et al., 2001h:46028**
**Luo, Peizhu** *see* **Ding, Xia Xi, 2001m:46042**
**Mond, B.** *see* **Dragomir, Sever Silvestru, 2001g:46043**
**Rassias, Themistocles M.** (*with* Xiang, Shuhuang) On Mazur-Ulam theorem and mappings which preserve distances. (English summary) **2001i:46029**
**Takahashi, Yasuji** *see* **Takahasi, Sin-Ei et al., 2001j:46026**
**Takahasi, Sin-Ei** (*with* Takahashi, Yasuji; Honda, Aoi) A new interpretation of Djoković's inequality. (English summary) **2001j:46026**
**Xiang, Shuhuang** Mappings of conservative distances and the Mazur-Ulam theorem. (English summary) **2001k:46034**
— *see also* **Rassias, Themistocles M., 2001i:46029**

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**Askari-Hemmat, A.** (*with* Dehghan, M. A.; Radjabalipour, M.) Generalized frames and their redundancy. (English summary) **2001m:42054**
**Becerra Guerrero, Julio** (*with* Rodríguez-Palacios, Ángel) Isometric reflections on Banach spaces after a paper of A. Skorik and M. Zaidenberg: "On isometric reflections in Banach spaces" [Mat. Fiz. Anal. Geom. **4** (1997), no. 1-2, 212–247; MR 99a:46025]. (English summary) **2001d:46034**
**Benedetto, John J.** Frames, sampling, and seizure prediction. (English summary) **2001a:42029**
**Benz, Walter** Hyperbolic distances in Hilbert spaces. (English summary) **2001d:39026**
**Cao, Huai Xin** Bessel sequences in a Hilbert space. (English and Chinese summaries) **2001h:46003**
**Christensen, Ole** (*with* Lindner, Alexander M.) Frames of exponentials: lower frame bounds for finite subfamilies and approximation of the inverse frame operator. (English summary) **2001m:41019**
**Dehghan, M. A.** *see* **Askari-Hemmat, A. et al., 2001m:42054**
**Han, De Guang** (*with* Larson, David R.; Papadakis, Manos; Stavropoulos, Th.) Multiresolution analyses of abstract Hilbert spaces and wandering subspaces. (English summary) **2001g:42067**
— (*with* Larson, David R.) Frames, bases and group representations. (English summary) **2001a:47013**
**Larson, David R.** *see* **Han, De Guang et al., 2001a:47013** *and* **2001g:42067**
**Li, Bingren** Real Tomita-Takesaki theory. (English summary) **2001f:46083**
**Li, Wenbo V.** (*with* Linde, Werner) Metric entropy of convex hulls in Hilbert spaces. (English summary) **2001h:60063**
**Linde, Werner** *see* **Li, Wenbo V., 2001h:60063**
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**Magaril-Il'yaev, Georgii G.** (*with* Osipenko, Konstantin Yu.; Tikhomirov, Vladimir M.) On exact values of $n$-widths in a Hilbert space. (English summary) **2001j:41035**
**Matoušek, Jiří** (*with* Matoušková, Eva) A highly non-smooth norm on Hilbert space. (English summary) **2001f:46065**
**Matoušková, Eva** *see* **Matoušek, Jiří, 2001f:46065**
**Mbekhta, Mostafa** (*with* Skhiri, Haïkel) Partial isometries: factorization and connected components. (English summary) **2001m:47026**
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**Osipenko, Konstantin Yu.** *see* **Magaril-Il'yaev, Georgii G. et al., 2001j:41035**
**Papadakis, Manos** *see* **Han, De Guang et al., 2001g:42067**
**Radjabalipour, M.** *see* **Askari-Hemmat, A. et al., 2001m:42054**
**Rodríguez-Palacios, Ángel** *see* **Becerra Guerrero, Julio, 2001d:46034**
**Sherstnev, A. N.** (*with* Turilova, E. A.) Classes of subspaces affiliated with a von Neumann algebra. (English summary) **2001m:46135**
**Shkarin, Stanislav A.** An infinite-dimensional separable pre-Hilbert space that is not homeomorphic to a closed hyperplane of it. (Russian. Russian summary) **2001g:57040**
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**Thompson, Anthony C.** Geometric means of ellipsoids and other convex bodies. (English summary) **2001k:47023**
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**Watbled, Frédérique** Complex interpolation of a Banach space with its dual. (English summary) **2001j:46116**
**(Zaidenberg, Mikhail)** *see* **Becerra Guerrero, Julio, 2001d:46034**

### 46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [see also 46B70, 46M35]

Items with secondary classifications in 46C07

**Tao, Chang Li** Hereditary reflexivity for the ranges of diagonal mappings on operator spaces. (Chinese. English and Chinese summaries) **2001g:47126**
**Vershinin, R. V.** Embedding of operator ranges and the reflexivity of Banach spaces. (Russian. English and Ukrainian summaries) **2001a:47006**

## 46C15 Characterizations of Hilbert spaces

**Becerra Guerrero, Julio** (*with* Rodríguez-Palacios, Ángel) Isometric reflections on Banach spaces after a paper of A. Skorik and M. Zaidenberg: "On isometric reflections in Banach spaces" [Mat. Fiz. Anal. Geom. **4** (1997), no. 1-2, 212–247; MR 99a:46025]. (English summary) **2001d:46034**
**Hoang Van Hung** On one lattice characterization of Hilbert spaces. (English summary)
**Rodríguez-Palacios, Ángel** *see* **Becerra Guerrero, Julio, 2001d:46034**
**(Skorik, A.)** *see* **Becerra Guerrero, Julio, 2001d:46034**
**(Zaidenberg, Mikhail)** *see* **Becerra Guerrero, Julio, 2001d:46034**

Items with secondary classifications in 46C15

**Alonso, Javier** (*with* Soriano, María L.) On height orthogonality in normed linear spaces. (English summary) **2001c:46018**
**Andalafte, Edward** (*with* Freese, Raymond) Altitude properties and characterizations of inner product spaces. (English summary) **2001j:51019**
**Boussouis, Brahim** Orthogonalité et caractérisation des espaces préhilbertiens. (English and French summaries) [Orthogonality and characterization of inner product spaces] **2001h:46006**
**Freese, Raymond** *see* **Andalafte, Edward, 2001j:51019**
**Ger, Roman** Orthogonalities in linear spaces and difference operators. (English summary) **2001m:39071**
**Miličić, Pavle M.** The angle modulus of the deformation of a normed space. (English summary) **2001m:46019**
**Narang, T. D.** (*with* Singh, Sankatha Prasad) Best coapproximation in metric linear spaces. (English summary) **2001c:41051**
**Paneque, F.** (*with* Piñeiro, C.) On Banach spaces $X$ for which $\Pi_2(X,\mathscr{L}_1) = \mathscr{N}_1(X,\mathscr{L}_1)$. (English summary) **2001m:46028**
**Piñeiro, C.** *see* **Paneque, F., 2001m:46028**
**Singh, Sankatha Prasad** *see* **Narang, T. D., 2001c:41051**
**Soriano, María L.** *see* **Alonso, Javier, 2001c:46018**

## 46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [see also 47B50]

**Bajasgalan, Ts.** (*with* Hadhuu, L.; Dayantsolmon, D.) Remarks on geometry of spaces with an indefinite metric. (English summary)
**Constantinescu, Tiberiu** (*with* Gheondea, Aurelian) Invariant Hermitian kernels and their Kolmogorov decompositions. (English and French summaries) **2001m:46043**
**Dayantsolmon, D.** *see* **Bajasgalan, Ts. et al.**
**Gheondea, Aurelian** *see* **Constantinescu, Tiberiu, 2001m:46043**
**Hadhuu, L.** *see* **Bajasgalan, Ts. et al.**
**Yang, Hai Tao[1]** *see* **Yu, Xue Jiang**
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**Alpay, Daniel** (*with* Vinnikov, Victor) Indefinite Hardy spaces on finite bordered Riemann surfaces. (English summary) **2001f:46037**
**Azizov, Tomas Ya.** (*with* Kiriakidi, V. K.) Convexity and weak closedness of the image of operator balls under linear-fractional transformation. (Russian) **2001e:47064**
**Duma, Adrian** Sums of contractions. (English summary) **2001m:47129**
**Kiriakidi, V. K.** *see* **Azizov, Tomas Ya., 2001e:47064**
**Liu, Zeng Rong** *see* **Tian, Li Xin, 2001f:47060**
**Matveichuk, M. S.** Measures on effects and on projections in spaces with indefinite metric. (English summary) **2001e:46110**
**Molnár, Lajos** Generalization of Wigner's unitary-antiunitary theorem for indefinite inner product spaces. (English summary) **2001g:47064**
**Tian, Li Xin** (*with* Liu, Zeng Rong) $p$ dissipative operator. (English summary) **2001f:47060**
**Vinnikov, Victor** *see* **Alpay, Daniel, 2001f:46037**

## 46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

**Cho, Yeol Je** (*with* Dragomir, Sever Silvestru; White, Albert George, Jr.; Kim, Seong Sik) Some inequalities in 2-inner product spaces. (English summary) **2001d:46035**
**de Deus Marques, João** On vectorial inner product spaces. (English summary) **2001e:46034**
**Dragomir, Sever Silvestru** (*with* Kannappan, Pl.) Some estimation of convex mappings in linear spaces endowed with subinner products. (English summary) **2001c:46036**
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**Kannappan, Pl.** *see* **Dragomir, Sever Silvestru, 2001c:46036**
**Kim, Seong Sik** *see* **Cho, Yeol Je et al., 2001d:46035**
**Misiak, Aleksander** (*with* Ryż, Alicja) $n$-inner product spaces and projections. (English summary) **2001b:46039**
**Ryż, Alicja** *see* **Misiak, Aleksander, 2001b:46039**
**White, Albert George, Jr.** *see* **Cho, Yeol Je et al., 2001d:46035**

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**Alpay, Daniel** (*with* Peretz, Y.) Special realizations for Schur upper triangular operators. (English summary) **2001a:47014**
**Dragomir, Sever Silvestru** (*with* Koliha, J. J.) Two mappings related to semi-inner products and their applications in geometry of normed linear spaces. (English summary) **2001g:46024**
**Koliha, J. J.** *see* **Dragomir, Sever Silvestru, 2001g:46024**
**Liu, Zeng Rong** *see* **Tian, Li Xin, 2001f:47060** *and* **2001k:47046**
**Lu, Dian Chen** (*with* Tian, Li Xin) The Berberian skill in generalized semi-inner product spaces. (Chinese. English and Chinese summaries) **2001h:47028**
**Peretz, Y.** *see* **Alpay, Daniel, 2001a:47014**
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**Tian, Li Xin** (*with* Liu, Zeng Rong) $p$ dissipative operator. (English summary) **2001f:47060**
— (*with* Liu, Zeng Rong) The research of $P$ dissipative operator. (Chinese. English and Chinese summaries) **2001k:47046**
— *see also* **Lu, Dian Chen, 2001h:47028**
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## 46C99 None of the above, but in this section

**Dragomir, Sever Silvestru** (*with* Koliha, J. J.) The mapping $\delta_{x,y}$ in normed linear spaces and refinements of the Cauchy-Schwarz inequality. **2001d:46036**
**Karayannakis, Dimitri** *see* **Magiropoulos, Manolis, 2001a:46019**
**Koliha, J. J.** *see* **Dragomir, Sever Silvestru, 2001d:46036**
**Magiropoulos, Manolis** (*with* Karayannakis, Dimitri) A "double" Cauchy-Schwarz type inequality. (English summary) **2001a:46019**
**Yu, Xue Gang[1]** Hyperbolic Hilbert space. (English summary) **2001k:46035**

Items with secondary classifications in 46C99

**Arveson, William** The curvature of a Hilbert module over $\mathbf{C}[z_1,\cdots,z_d]$. (English summary) **2001k:47010**
**Baronti, M.** (*with* Papini, Pier Luigi) Up and down along rays. (English summary) **2001h:46005**
**Benz, Walter** Einstein distances in Hilbert spaces. **2001f:51008**
**Dem'yanovich, Yu. K.** Properties of abstract $F$ representations. (English summary)
**Dragomir, Sever Silvestru** A Grüss type discrete inequality in inner product spaces and applications. (English summary) **2001g:26018**
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**Ishihara, Hajime** Locating subsets of a Hilbert space. (English summary) **2001h:46132**
**Keleti, Tamás** (*with* Preiss, David) The balls do not generate all Borel sets using complements and countable disjoint unions. (English summary) **2001d:28002**
**Maksa, Gyula** (*with* Volkmann, Peter) Characterization of group homomorphisms having values in an inner product space. (English summary) **2001a:39064**
**Malčeski, Risto** Strong convex $n$-normed spaces. (English and Macedonian summaries) **2001k:46007**
**Ochsenius A., Herminia** *see* **Schikhof, W. H., 2001m:46167**
**Papini, Pier Luigi** *see* **Baronti, M., 2001h:46005**
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**Schikhof, W. H.** (*with* Ochsenius A., Herminia) Linear homeomorphisms of non-classical Hilbert spaces. (English summary) **2001m:46167**
**Volkmann, Peter** *see* **Maksa, Gyula, 2001a:39064**

# 46Exx Linear function spaces and their duals {For function algebras, see 46J10.}

Items with secondary classifications in 46Exx

**Axler, Sheldon** (*with* Bourdon, Paul S.; Ramey, Wade) ★ Harmonic function theory. (English summary) **2001j:31001**
**Bourdon, Paul S.** *see* **Axler, Sheldon et al., 2001j:31001**
**(Hudzik, Henryk)** *see* **Function spaces, 2001d:46002**
**Ramey, Wade** *see* **Axler, Sheldon et al., 2001j:31001**
**(Skrzypczak, Leszek)** *see* **Function spaces, 2001d:46002**

Items listed otherwise than by author

**Conference:**
**Function Spaces** ★ Function spaces. **2001d:46002**
**Function spaces** ★ Function spaces. **2001d:46002**
**Poznań** ★ Function spaces. **2001d:46002**

## 46E05 Lattices of continuous, differentiable or analytic functions

Items with secondary classifications in 46E05

**Metafune, Giorgio** (*with* Pallara, Diego) Trace formulas for some singular differential operators and applications. (English summary) **2001c:34176**
**Mincheva, Svetlana T.** Automorphisms of $C$ commuting with partial integration operators in a rectangle. (English summary) **2001e:47057**
**Pallara, Diego** *see* **Metafune, Giorgio, 2001c:34176**
**Terada, Toshiji** Topological lattices $C_k(X)$ and $C_p(X)$: embeddings and isomorphisms. (English summary) **2001j:54014**

## 46E10 Topological linear spaces of continuous, differentiable or analytic functions

**Abkar, A.** (*with* Hedenmalm, Håkan) Invariant subspaces in quasi-Banach spaces of analytic functions. (English summary) **2001g:46044**
**Albanese, Angela A.** (*with* Moscatelli, V. B.) Representations of the spaces $C^\infty(\mathbf{R}^N) \cap H^{k,p}(\mathbf{R}^N)$. (English summary) **2001k:46030**
**Arslan, Bora** (*with* Goncharov, A. P.; Kocatepe, Mefharet) Sequence space representations of spaces of Whitney functions. (English summary) **2001f:46036**
**Behnam, Hazem Shaba** (*with* Srivastava, G. S.) Spaces of analytic functions of two complex variables. (English summary) **2001d:46037**
**Bhattacharya, D. K.** (*with* Manna, Sasadhar) Two paranorm and the set of all entire Dirichlet series. (English summary) **2001d:46038**

**Bonet, José** (*with* Taskinen, Jari) The subspace problem for weighted inductive limits revisited. (English summary) **2001e:46035**
— (*with* Domański, Paweł) Parameter dependence of solutions of partial differential equations in spaces of real analytic functions. (English summary) **2001j:46027**
**Chakraborty, B. C.** (*with* Samanta, Tapas Kumar) A generalized FK-space of entire functions of $M$-bounded index. (English summary) **2001b:46040**
**Cianchi, Andrea** Second order variation reducing properties of rearrangements. (English summary) **2001a:46020**
**Domański, Paweł** (*with* Vogt, Dietmar) The space of real-analytic functions has no basis. (English summary) **2001m:46044**
— *see also* **Bonet, José, 2001j:46027**
**Dontchev, Julian** (*with* Salbany, Sergio; Valov, Vesko) Barrelled and bornological function spaces. (English summary) **2001c:46037**
**Gianazza, Ugo** (*with* Vespri, Vincenzo) Hölder classes relative to degenerate elliptic operators as interpolation spaces. (English summary) **2001e:46036**
**Goncharov, A. P.** Spaces of Whitney functions with basis. (English summary) **2001k:46036**
— *see also* **Arslan, Bora et al., 2001f:46036**
**Hedenmalm, Håkan** *see* **Abkar, A., 2001g:46044**
**Ibadov, N. V.** The space $H^\infty(D)$ for a bounded domain. (Russian. English and Russian summaries) **2001g:46045**
**Kir'yatskiĭ, È. G.** Distortion theorems and compactness criteria for families of functions in the class $K_n(D)$. (Russian. English summary) **2001m:46045**
**Kocatepe, Mefharet** *see* **Arslan, Bora et al., 2001f:46036**
**Korobeĭnik, Yu. F.** Absolutely representing systems of exponentials with imaginary exponents in spaces of infinitely differentiable functions. (Russian) **2001k:46037**
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**Krivosheev, A. S.** Regularity of the growth of a system of functions and a system of nonhomogeneous convolution equations in convex domains of the complex plane. (Russian. Russian summary) **2001m:46046**
**Kundu, Subiman** (*with* Raha, A. B.) The dual of $C_b(X)$. (English summary) **2001b:46041**
**Le Mau Hai** (*with* Nguyen Van Khue; Nguyen Ha Thanh) The properties ($\Omega$) and (DN) of spaces of entire functions of bounded type. (English summary) **2001c:46038**
**Manna, Sasadhar** *see* **Bhattacharya, D. K., 2001d:46038**
**McBride, A. C.** *see* **Peat, R. M. et al., 2001e:46037** *and* **2001e:46038**
**Moscatelli, V. B.** *see* **Albanese, Angela A., 2001j:46030**
**Mozo Fernández, Jorge** Topological tensor products and asymptotic developments. (English and French summaries) **2001d:46040**
**Musin, I. Kh.** A theorem of Paley-Wiener type for a weighted space of infinitely differentiable functions. (Russian. Russian summary) **2001m:46047**
**Nawrocki, Marek** On Lumer's Hardy spaces $LH^p(\mathrm{U}^n)$. **2001b:46029**
**Nguyen Ha Thanh** *see* **Le Mau Hai et al., 2001c:46038**
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**Odinokov, O. V.** Spectral synthesis in some spaces of entire functions of exponential type and its applications. (Russian. Russian summary) **2001k:46038**
**Peat, R. M.** (*with* Spratt, W. J.; McBride, A. C.) Spaces of smooth functions on $\mathbf{R}_+$ for Mellin multiplier transforms. (English summary) **2001e:46037**
— (*with* McBride, A. C.) Spaces of smooth functions on $\mathbf{R}^n$ via spherical harmonics. (English summary) **2001e:46038**
**Raha, A. B.** *see* **Kundu, Subiman, 2001b:46041**
**Salbany, Sergio** *see* **Dontchev, Julian et al., 2001c:46037**
**Samanta, Tapas Kumar** *see* **Chakraborty, B. C., 2001b:46040**
**Shamoyan, F. A.** Parametric representation and description of the root sets of weighted classes of functions holomorphic in the disk. (Russian. Russian summary) **2001a:46021**
**Sherstyukov, V. B.** On $\gamma$-sufficient sets. (Russian. Russian summary) **2001k:46039**
**Spratt, W. J.** *see* **Peat, R. M. et al., 2001e:46037**
**Srivastava, G. S.** *see* **Behnam, Hazem Shaba, 2001d:46037**
**Taskinen, Jari** *see* **Bonet, José, 2001e:46035**
**Valov, Vesko** *see* **Dontchev, Julian et al., 2001c:46037**
**Vespri, Vincenzo** *see* **Gianazza, Ugo, 2001e:46036**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001m:46044**

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**Albanese, Angela A.** On completeness and projective descriptions of weighted inductive limits of spaces of Fréchet-valued continuous functions. (English summary) **2001j:46043**
**Alekseeva, E. N.** Analogues of a rational series in a locally convex space. (Russian. English and Russian summaries) **2001m:46003**
**Balikov, Gurko I.** (*with* Dimitrov, Ivan P.) Some notes on Zahariuta-Vogt's conditions. (English summary) **2001e:46013**
**Bouziad, Ahmed** Le degré de Lindelöf est $l$-invariant. (English summary) [The Lindelöf degree is $l$-invariant] **2001f:54016**
**Castro, Luis P.** (*with* Speck, F.-O.) Relations between convolution type operators on intervals and on the half-line. (English summary) **2001f:47044**
**Cho, Min Hyung** *see* **Kang, Shin Min et al.**
**Choban, M. M.** Functional equivalence of topological spaces. (English summary) **2001m:54015**
**Dimitrov, Ivan P.** *see* **Balikov, Gurko I., 2001e:46013**
**Egorov, A. A.** (*with* Korobkov, M. V.) Stability of classes of Lipschitz mappings, the Darboux theorem, and quasiconvex sets. (Russian. Russian summary) **2001m:26032**
**Feinstein, Joel F.** (*with* Kamowitz, Herbert) Endomorphisms of Banach algebras of infinitely differentiable functions on compact plane sets. (English summary) **2001j:46073**
**Font, Juan J.** (*with* Sanchis, Manuel) An algebraic characterization of N-compactness. (English summary) **2001d:47046**
**Fujita, Keiko** (*with* Morimoto, Mitsuo) Conical Fourier transform of Hardy space of harmonic functions on the Lie ball. (English summary) **2001k:46064**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
**Hwang, Hong Taek** *see* **Kang, Shin Min et al.**
**Junnila, Heikki J. K.** Embeddings of weakly compact sets and $*$-paired Banach spaces. (English summary) **2001j:46015**
**Kąkol, Jerzy** Baire property and related concepts for spaces $C(X, E)$. **2001h:46057**
**Kamowitz, Herbert** *see* **Feinstein, Joel F., 2001j:46073**
**Kang, Shin Min** (*with* Hwang, Hong Taek; Cho, Min Hyung) On $l^p$-multiplier convergence of function series. (English summary)
**Koldobsky, Alexander** Positive definite distributions and subspaces of $L_{-p}$ with applications to stable processes. (English summary) **2001i:42014**
**Komarov, A. V.** *see* **Napalkov, V. V., 2001j:30045**
**Korobkov, M. V.** *see* **Egorov, A. A., 2001m:26032**
**Kozlovskaya, E. A.** *see* **Znamenskiĭ, S. V., 2001f:47053**
**Lê Hai Khôi** Weakly sufficient sequences in the space of functions of polynomial growth. (English summary) **2001f:30062**
**Maestre, Manuel** *see* **García, Domingo et al., 2001c:46071**
**Massaneda, Xavier** Density conditions for interpolation in $A^{-\infty}$. (English summary) **2001e:30069**
**Matsumoto, Toshiko** (*with* Watanabe, Seiji) Small bound isomorphisms of the domain of a closed $*$-derivation. (English summary) **2001e:46098**
**Morimoto, Mitsuo** *see* **Fujita, Keiko, 2001k:46064**
**Napalkov, V. V.** (*with* Komarov, A. V.) On the properties of operators of a certain class associated with a Fischer pair in the space of analytic functions. (Russian) **2001j:30045**
**Nezhmetdinov, I. R.** Dual complements and hulls of classes of analytic functions. (Russian) **2001f:30064**
**Nguyen Dinh Lan** ($LB^\infty$)-structure of spaces of germs of holomorphic functions. (English summary) **2001g:46104**
**Oubbi, L.** Extended composition operators in weighted spaces. (English summary) **2001h:47035**
**Paúl, Pedro J.** The space of Denjoy-Dunford integrable functions is ultrabornological. (English summary) **2001m:46081**
**Platonov, S. S.** Convergence and sequential convergence in some functional topological vector spaces. (Russian. English and Russian summaries) **2001d:46009**
**Popov, A. Yu.** On the completeness of systems of exponentials with real exponents of a given upper density in the space of analytic functions. (Russian. Russian summary) **2001c:30005**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071**
**Sanchis, Manuel** *see* **Font, Juan J., 2001d:47046**
**Schmuland, Byron** Extended Dirichlet spaces. (English and French summaries) **2001e:31018**
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**Varankina, V. I.** Maximal ideals in semirings of continuous functions. (Russian. English and Russian summaries)
**Watanabe, Seiji** *see* **Matsumoto, Toshiko, 2001e:46098**
**Wengenroth, Jochen** Regularity of general weighted inductive limits. (English summary) **2001c:46003**
**Zajtz, Andrzej** Nonlinear Peetre-like theorems. (English summary) **2001c:58038**
**Znamenskiĭ, S. V.** (*with* Kozlovskaya, E. A.) Epimorphism criterion for a convolution operator with a pointwise support in a space of functions holomorphic on a connected set in $\mathbf{C}$. (Russian) **2001f:47053**

## 46E15 Banach spaces of continuous, differentiable or analytic functions

**Abuzyarova, N. F.** On a property of subspaces that admit spectral synthesis. (Russian. Russian summary) **2001c:46039**
**Aleksandrov, A. B.** Embedding theorems for coinvariant subspaces of the shift operator. II. (Russian. English and Russian summaries) **2001g:46047**
— On embedding theorems for coinvariant subspaces of the shift operator. I. **2001g:46046**
**Bachir, Mohammed** Sur la différentiabilité générique et le théorème de Banach-Stone. (English and French summaries) [On generic differentiability and the Banach-Stone theorem] **2001e:46039**
**Beckenstein, Edward** (*with* Narici, Lawrence) Subadditive separating maps. (English summary) **2001k:46040**
**Burke, Kevin** Duality of the Bergman spaces on some weakly pseudoconvex domains. **2001j:46028**
**Cabello Sánchez, Félix** Diameter preserving linear maps and isometries. II. (English summary) **2001a:46022**
**Choe, Boo Rim** (*with* Koo, Hyungwoon; Yi, HeungSu) Gleason's problem for harmonic Bergman and Bloch functions on half-spaces. (English summary) **2001c:46040**
**Contreras, Manuel D.** (*with* Díaz-Madrigal, Santiago) Uniform approximation properties for spaces of analytic functions. (English summary) **2001b:46042**
**Cui, Xue Wei** (*with* Ren, Qin Mou) Properties of Bloch spaces on two-connected domains. (Chinese. English and Chinese summaries) **2001b:46043**
**Díaz-Madrigal, Santiago** *see* **Contreras, Manuel D., 2001b:46042**
**Dimitrov, Ivan P.** About overconvergent functional series in the space of analytic functions in the unit disk. (English summary) **2001a:46023**
**Dubinskiĭ, Yu. A.** (*with* Osipenko, A. S.) A general form of linear functionals over analytic Sobolev spaces. (Russian) **2001c:46041**
**Duborija, Stojan** Inclusion theorems for the spaces $\mathcal{F}_n$. (English summary) **2001m:46048**
**Dyakonov, Konstantin M.** Continuous and compact embeddings between star-invariant subspaces. (English summary) **2001g:46048**
**Dyn'kin, Evsey** Rational functions in Bergman spaces. (English summary) **2001h:46030**
**Fàbrega, Joan** *see* **Ortega, Joaquín M., 2001i:46033**
**Frankiewicz, R.** (*with* Plebanek, G.; Ryll-Nardzewski, C.) Between Lindelöf property and countable tightness. (English summary) **2001c:46042**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Schauder decompositions of weighted spaces of holomorphic functions. (English summary) (*see* **2001b:00021**)
**Gotoh, Yasuhiro** On decomposition theorem for BMO and VMO. (English summary) **2001k:46041**
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## 46E20 Hilbert spaces of continuous, differentiable or analytic functions

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**Gubreev, G. M.** Unconditional bases of Hilbert spaces, composed of values of entire vector functions of exponential type. (Russian) **2001c:47044**
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**Gupta, Sunil** *see* **Komal, B. S. et al., 2001b:47041**
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## 46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [see also 47B32]

**Akashi, Shigeo** Operator theoretical classification of reproducing kernel Hilbert spaces.

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**Ricker, Werner J.** *see* **Gaudry, G. I. et al., 2001i:43008**
**Rom, Celina** Remarks on decomposable sets. (English summary) **2001i:46021**
**Salbany, Sergio** *see* **Dontchev, Julian et al., 2001c:46037**
**Singh, Ajit Iqbal** *see* **Jain, Surender Kumar, 2001g:46106**
**Singh, Bhopinder** (*with* Koaur, Kamaljeet) Weighted composition operators on weighted spaces in the non-locally convex setting. (English summary) **2001h:47038**
**— *see also* Kour, Kamaljeet, 2001i:47040**
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**Suslov, S. I.** Characterization of strongly exposed points in $L_2(T, X)$. (Russian. Russian summary) **2001g:46101**
**Swartz, Charles** Barrelledness of the space of Archimedean integrable functions. (English summary) **2001b:46069**
**—** A gliding hump property for the Henstock-Kurzweil integral. (English summary) **2001k:26009**
**Tao, Zhang** *see* **Cui, Yunan et al., 2001e:46030**
**Valov, Vesko** *see* **Dontchev, Julian et al., 2001c:46037**
**Velasco, María Victoria** Automatic continuity of operators on non-associative vector valued algebras. (English summary) **2001a:46052**
**Wang, Shushi** Exposed and smooth points of $c_0(\Gamma, X)$ with Day's norm. (English and Chinese summaries) **2001f:46035**
**Yang, Chung-Chun** *see* **Hu, Chuan Gan, 2001e:30050**
**Ziat, Hassan** On a characterization of Pettis integrable multifunctions. (English summary) **2001d:46063**

## 46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [see also 46G20, 46G25, 47H60]

**Bui Dac Tac** *see* **Nguyen Van Hao, 2001f:46058**
**Galindo, Pablo** (*with* Maestre, Manuel; Rueda, M. P.) Biduality in spaces of holomorphic functions. (English summary) **2001i:46062**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
**Le Mau Hai** (*with* Pham Hien Bang) On the property $(LB^\infty)$ of spaces of germs of holomorphic functions and the properties $(\overline{\Omega}, \widehat{\Omega})$ of the Hartogs domains in infinite dimension. (English summary) **2001h:46060**
**Maestre, Manuel** *see* **García, Domingo et al., 2001c:46071** *and* **Galindo, Pablo et al., 2001i:46062**
**Mauer, Murielle** Domains of R-analytic existence in inductive limits of real separable Banach spaces. (English summary) **2001j:46047**
**Nguyen Van Hao** (*with* Bui Dac Tac) The properties (DN) and $(DN_\varphi)$ of spaces of germs of holomorphic functions. (English summary) **2001f:46058**
**Pham Hien Bang** *see* **Le Mau Hai, 2001h:46060**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071** *and* **Galindo, Pablo et al., 2001i:46062**
**Wang, Feng-Yu** Sobolev type inequalities for general symmetric forms. (English summary) **2001b:46053**

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**Beaugendre, Pascal** Extensions de jets dans des intersections de classes non quasi analytiques. (English and French summaries) [Extensions of jets for intersections of non-quasi-analytic classes] **2001m:58020**
**Carando, Daniel** (*with* Dimant, Verónica) Duality in spaces of nuclear and integral polynomials. (English summary) **2001c:46089**
**Dimant, Verónica** *see* **Carando, Daniel, 2001c:46089**
**Dineen, Seán** ★ Complex analysis on infinite-dimensional spaces. (English summary) **2001a:46043**
**Grecu, Bogdan C.** Geometry of three-homogeneous polynomials on real Hilbert spaces. (English summary) **2001i:46026**
**Nguyen Dinh Lan** On the uniformity of meromorphic functions. (English summary) **2001c:46087**
**—** Structure of space of germs of holomorphic functions and Hartogs type theorem.
**—** $(LB^\infty)$-structure of spaces of germs of holomorphic functions. (English summary) **2001g:46104**
**— *see also* Nguyen Van Khue, 2001j:46059**
**Nguyen Van Khue** (*with* Nguyen Dinh Lan) The structure of type $(\Omega)$ of spaces of Banach-valued holomorphic germs. (English summary) **2001j:46059**

## 46E99 None of the above, but in this section

**Buckley, Stephen M.** Inequalities of John-Nirenberg type in doubling spaces. (English summary) **2001f:46059**
**Cho, Yeol Je** (*with* Dragomir, Sever Silvestru; Kim, Seong Sik; Pearce, Charles E. M.) Cauchy-Schwarz functionals. (English summary) **2001j:46048**
**Dobrovol'skiĭ, N. M.** (*with* Manokhin, E. V.) Banach spaces of periodic functions. (Russian. English and Russian summaries) **2001k:46060**
**Dragomir, Sever Silvestru** *see* **Cho, Yeol Je et al., 2001j:46048**
**Ganiev, I. G.** Measurable bundles of Boolean algebras. (Russian. English and Uzbek summaries) **2001e:46068**
**Kim, Seong Sik** *see* **Cho, Yeol Je et al., 2001j:46048**
**Ma, Jian** Hölder dual spaces for Banach spaces and Hölder dual operators of nonlinear Hölder operators. (Chinese. English and Chinese summaries) **2001g:46088**
**Manokhin, E. V.** *see* **Dobrovol'skiĭ, N. M., 2001k:46060**
**Pearce, Charles E. M.** *see* **Cho, Yeol Je et al., 2001j:46048**
**Xiao, Jie[1]** Hankel measures on Hardy space. (English summary) **2001g:46089**

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**Balazard, Michel** (*with* Saias, Eric) The Nyman-Beurling equivalent form for the Riemann hypothesis. **2001i:11109**
**Bayoumi, Aboubakr** Fixed points of holomorphic mappings on non convex bounded domains in $\mathbf{C}^n$. (English and Polish summaries) **2001f:32025**
**Berrone, Lucio R.** Coalescence of measures and $f$-rearrangements of a function. (English summary) **2001c:28029**
**Berti, Patrizia** (*with* Rigo, Pietro) Integral representation of linear functionals on spaces of unbounded functions. (English summary) **2001b:28016**
**(Calderón, Alberto Pedro)** *see* **Stein, Elias M., 2001e:42021**
**Ciesielski, Zbigniew** Orthogonal projections onto spline spaces with arbitrary knots. **2001h:41010**
**Duyar, Cenap** (*with* Seferoğlu, Heybet) Evaluation of the distance to the space of multipliers in integrable function spaces. (English summary) **2001g:43002**
**Esterle, Jean** (*with* Gay, Roger[1]) Product of hyperfunctions on the circle. (English summary) **2001h:46067**
**Eveson, S. P.** Compactness criteria and measures of noncompactness in function spaces. **2001m:47037**
**Gay, Roger[1]** *see* **Esterle, Jean, 2001h:46067**
**Gilbert, John E.** (*with* Hogan, J. A.; Lakey, Joseph D.) Characterization of Hardy spaces by singular integrals and "divergence-free" wavelets. (English summary) **2001d:42015**
**Girgensohn, Roland** An infinite-dimensional subspace of $C[0, 1]$ consisting of functions with no finite one-sided derivatives. (English summary)
**Gutman, A. E.** Banach fiberings in the theory of lattice-normed spaces. (Russian. Russian summary) **2001k:46033**
**Hogan, J. A.** *see* **Gilbert, John E. et al., 2001d:42015**
**Isnard, C. A.** (*with* Iusem, Alfredo Noel) On mixed Hölder-Minkowski inequalities and total convexity of certain functions in $\mathscr{L}^p(\Omega)$. (English summary) **2001f:46021**
**Iusem, Alfredo Noel** *see* **Isnard, C. A., 2001f:46021**
**Jaffard, Stéphane** Construction of functions with prescribed Hölder and chirp exponents. (English summary) **2001m:26008**
**Jiang, Yinsheng** (*with* Tang, Lin; Yang, Dachun) Continuity of commutators on weighted Herz-type spaces. **2001b:42014**
**Laakso, T. J.** Ahlfors $Q$-regular spaces with arbitrary $Q > 1$ admitting weak Poincaré inequality. (English summary) **2001m:30027**
**Lakey, Joseph D.** *see* **Gilbert, John E. et al., 2001d:42015**
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**Martio, Olli** (*with* Ryazanov, Vladimir I.; Vuorinen, Matti) BMO and injectivity of space quasiregular mappings. (English summary) **2001d:30031**
**Mascioni, Vania** On optimal lattice decompositions. (English summary) **2001f:46010**

**Mateu, Joan** (*with* Mattila, Pertti; Nicolau, Artur; Orobitg, J.) BMO for nondoubling measures. **2001e:26019**
**Mattila, Pertti** *see* **Mateu, Joan et al., 2001e:26019**
**Mei, Tao** (*with* Liu, Pei-de) Some Clifford martingale spaces. (English summary) **2001f:60046**
**Mikhalëv, A. V.** *see* **Zakharov, Valeriĭ Konstantinovich, 2001g:28020**
**Murphy, Gerard J.** Invariant ideals in Toeplitz algebras. (English summary) **2001j:47090**
**Napalkov, V. V.** (*with* Sapronova, G. A.) Series of exponentials in the space of sequences of finite order and type. (Russian) **2001i:30026**
**Nicolau, Artur** *see* **Mateu, Joan et al., 2001e:26019**
**Orobitg, J.** *see* **Mateu, Joan et al., 2001e:26019**
**Rigo, Pietro** *see* **Berti, Patrizia, 2001b:28016**
**Ryazanov, Vladimir I.** *see* **Martio, Olli et al., 2001d:30031**
**Saias, Eric** *see* **Balazard, Michel, 2001i:11109**
**Sapronova, G. A.** *see* **Napalkov, V. V., 2001i:30026**
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**Shtern, A. I.** Winding number of a plane $L^\infty$ curve and index of the corresponding Toeplitz operator. (English summary) **2001m:47052**
**Stein, Elias M.** Calderón and Zygmund's theory of singular integrals. **2001e:42021**
**Sychev, Mikhail A.** Characterization of homogeneous gradient Young measures in case of arbitrary integrands. (English summary) **2001m:26029**
**Tang, Lin** (*with* Yang, Dachun) Boundedness of rough singular integrals and their commutators on inhomogeneous Herz spaces. (English summary) **2001f:42027**
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**Washihara, Masako** *see* **Yasugi, Mariko, (2001e:00032)**
**Yang, Dachun** *see* **Jiang, Yinsheng et al., 2001b:42014** *and* **Tang, Lin, 2001f:42027**
**Yasugi, Mariko** (*with* Washihara, Masako) Computability structures in analysis [translation of Sūgaku **50** (1998), no. 2, 130–148; MR 2000b:03219]. (*see* **2001e:00032**)
**Zakharov, Valeriĭ Konstantinovich** (*with* Mikhalëv, A. V.) The problem of the general Radon representation for an arbitrary Hausdorff space. (Russian. Russian summary) **2001g:28020**
**Zastavnyi, V. P.** On positive definiteness of some functions. (English summary) (*see* **2001g:00028**)
**Zhang, Yong Hu** An equivalence relation between the weighted $K$-functionals and the weighted smoothness moduli in $B_\alpha$ spaces. (Chinese. English and Chinese summaries) **2001j:41048**
**Ziemer, William P.** Functions of least gradient and BV functions. **2001j:49069**
**(Zygmund, Antoni)** *see* **Stein, Elias M., 2001e:42021**

## 46Fxx Distributions, generalized functions, distribution spaces [see also 46T30]

### 46F05 Topological linear spaces of test functions, distributions and ultradistributions [see also 46E10, 46E35]

**Abdullah, Saleh** On the space $O_c'(\mathcal{X}_M'; \mathcal{X}_M')$ and its dual. (English summary) **2001i:46063**
**Chersi, Franco** (*with* Guarrera, Silvia) A Kolmogorov-like extension theorem for distributions with compact supports. **2001c:46072**
**Chung, Soon-Yeong** *see* **Na, Ji-Young, 2001a:46040**
**Domański, Paweł** (*with* Vogt, Dietmar) Distributional complexes split for positive dimensions. (English summary) **2001g:46090**
**Guarrera, Silvia** *see* **Chersi, Franco, 2001c:46072**
**Kasperski, Andrzej** On multidistributions and X-distributions. **2001d:46049**
**Li, Bang-He** (*with* Li, Ya-Qing) Some classes of new generalized functions. (English and Chinese summaries) **2001g:46091**
**Li, Ya-Qing** *see* **Li, Bang-He, 2001g:46091**
**López Pouso, Óscar** Some contributions to the study of the space of distributions $\mathcal{D}'(V)$, with $V$ closed. (English and Spanish summaries) **2001g:46092**
**Lozanov-Crvenković, Zagorka** (*with* Perišić, Dušanka) Spaces of tempered ultradistributions and differential equations. (English summary) **2001d:46050**
**Melikhov, Sergei Nikolaevich** Generalized Fourier expansions for distributions and ultradistributions. (English summary) **2001b:46054**
**Na, Ji-Young** (*with* Chung, Soon-Yeong) Homogeneous generalized functions which are rotation invariant. (English summary) **2001a:46040**
**Pahk, Dae Hyeon** *see* **Sohn, Byung Keun, 2001c:46073**
**Perišić, Dušanka** *see* **Lozanov-Crvenković, Zagorka, 2001d:46050**
**Quddus, M. A.** A representation of continuous linear functional on certain $K\{M_p\}$ spaces. (English summary) **2001b:46055**
**Rodríguez-Salinas, Baltasar** On the space $\mathcal{D}'(I)$ of sequential distributions. (English summary) **2001f:46060**
**Sohn, Byung Keun** (*with* Pahk, Dae Hyeon) Wavelets in the generalized tempered distributions. (English summary) **2001c:46073**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001g:46090**
**Zhu, Tong Jiang** A criterion on the sequence of $\delta$ type functions. (Chinese. English and Chinese summaries)

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**Betancor, Jorge J.** (*with* González Rodríguez, Benito) Spaces of $\mathcal{D}_{L^p}$-type and the Hankel convolution. (English summary) **2001c:46082**
**Budinčević, M.** (*with* Lozanov-Crvenković, Zagorka; Perišić, Dušanka) Representation theorems for tempered ultradistributions. (English summary) **2001e:46077**
**Carmichael, Richard D.** (*with* Kamiński, Andrzej; Pilipović, Stevan S.) ★ Notes on boundary values in ultradistribution spaces. **2001b:46064**
**Carton-Lebrun, Christiane** *see* **Alvarez, Josefina, 2001c:46075**
**Catană, Viorel** The "strongly partial wave front set" of a distribution and almost hypoelliptic pseudodifferential operators. (English summary) **2001j:58046**
**Chung, Soon-Yeong** A stronger reflection principle for temperature functions. (English summary) **2001d:35079**
**De Paoli, A. L.** (*with* Estevez, M. A.; Rocca, M. C.; Vucetich, H.) Treatment of Gamow states, using tempered ultradistributions. (English summary) **2001c:81218**
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**Domański, Paweł** (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**
**Estevez, M. A.** *see* **De Paoli, A. L. et al., 2001c:81218** *and* **2001c:81219**
**Gabardo, Jean-Pierre** Hilbert spaces of distributions having an orthogonal basis of exponentials. (English summary) **2001e:42038**
**González Rodríguez, Benito** *see* **Betancor, Jorge J., 2001c:46082**
**Gulisashvili, Archil** Hulls and kernels of function classes. (English summary) **2001c:46054**
**Kamiński, Andrzej** (*with* Perišić, Dušanka; Pilipović, Stevan S.) The convolution and convolutors in Gel'fand-Shilov spaces of distributions. (English summary) **2001h:46062**
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**Karunakaran, V.** (*with* Venugopal, T.) A new space for Fourier transform. (English summary) **2001e:46075**
**Koldobsky, Alexander** Positive definite distributions and subspaces of $L_{-p}$ with applications to stable processes. (English summary) **2001i:42014**
**Liu, Shangping** Generalized functions associated with self-adjoint operators. (English summary) **2001e:47042**
**Lozanov-Crvenković, Zagorka** *see* **Budinčević, M. et al., 2001e:46077**
**Meloni, Giancarlo** (*with* Munarini, Emanuele) Purely algebraic theories for elementary operational calculus and generalized functions. (English summary) **2001h:46063**
**Mikusiński, Piotr** (*with* Pyle, Bradford A.) Boehmians on the sphere. (English summary) **2001k:44006**
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**Odinokov, O. V.** Spectral synthesis in some spaces of entire functions of exponential type and its applications. (Russian. Russian summary) **2001k:46038**
**Palmgren, Erik** Constructive nonstandard representations of generalized functions. (English summary) **2001m:03127**
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**Pilipović, Stevan S.** *see* **Carmichael, Richard D. et al., 2001b:46064**; **Kamiński, Andrzej et al., 2001h:46062** *and* **2001h:46066**
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**Radyno, Nikolai Ya.** On solutions of linear differential equations in the algebra of mnemonic functions that contains slowly growing distributions. (Russian. English and Russian summaries) **2001c:35047**
**Rocca, M. C.** *see* **De Paoli, A. L. et al., 2001c:81218** *and* **2001c:81219**
**Skórnik, Urszula** Elements of $D'_{L^p}(\mathbf{R})$ as boundary values of holomorphic functions. (English summary) **2001h:46068**
**Venugopal, T.** *see* **Karunakaran, V., 2001e:46075**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125**
**Vucetich, H.** *see* **De Paoli, A. L. et al., 2001c:81218** *and* **2001c:81219**

### 46F10 Operations with distributions

**Abdullah, Saleh** On solvability of convolution equations in spaces of generalized distributions with restricted growth. (English summary) **2001a:46041**
— Solvability of convolution equations in $\mathcal{D}'_{L^p}$. (English summary) **2001f:46061**
**Aguirre Téllez, Manuel Antonio** The convolution product of $k$-th derivative of Dirac delta in $P \pm i0 - m^2$. (English summary) **2001d:46051**
— (*with* Bollini, C. G.; Rocca, M. C.) On the product of distributions with coincident point singularities. (English summary) **2001c:46074**
— Distributional convolution product between the $k$-th derivative of Dirac's delta in $|x|^2 - m^2$. (English summary) **2001k:46061**
— On some multiplicative product of $k$th derivative of Dirac's delta in $x_0 + |x|$ and $x_0 - |x|$. (English summary) **2001i:46064**
**Al-Sirehy, Fatma** (*with* Fisher, Brian) The composition of functions as a distribution. (English and Serbo-Croatian summaries) **2001e:46070**
— (*with* Fisher, Brian) A note on the composition of distributions. (English summary) **2001d:46052**
— (*with* Fisher, Brian) Some non-commutative neutrix products. (English summary) **2001e:46069**
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**Blanchet, Luc** (*with* Faye, Guillaume) Hadamard regularization. (English summary) **2001h:46061**
**Bollini, C. G.** (*with* Escobar, T.; Rocca, M. C.) Convolution of ultradistributions and field theory. (English summary) **2001c:46076**
— *see also* **Aguirre Téllez, Manuel Antonio et al., 2001c:46074**
**Bonet, José** (*with* Fernández, Carmen; Meise, Reinhold) Operators of solution for convolution equations. (English summary) **2001c:46077**
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**Carton-Lebrun, Christiane** *see* **Alvarez, Josefina, 2001c:46075**
**Damyanov, Blagovest P.** Singular distribution products in Colombeau algebra. (English summary) **2001b:46056**

— On Mikusiński type products of distributions. (English summary) **2001g:46093**
**Escobar, T.** *see* **Bollini, C. G. et al., 2001c:46076**
**Faye, Guillaume** *see* **Blanchet, Luc, 2001h:46061**
**Fernández, Carmen** On the range of two convolution operators. (English summary) **2001g:46094**
— *see also* **Bonet, José et al., 2001c:46077** *and* **2001e:46071**
**Fisher, Brian** (*with* Kılıçman, Adem; Pehlivan, Serpil) The neutrix convolution product $(x_-^{\lambda}\ln^r x_-)\boxed{\bullet}(x_+^{\mu}\ln^s x_+)$. (English summary) **2001d:46053**
— (*with* Liu, Zhen Hai; Nicholas, Joel D.) The convolution of functions and distributions. (English summary) **2001i:46065**
— (*with* Nicholas, Joel D.) Some results on the exponential integral and the neutrix convolution product. (English summary) **2001m:46082**
— (*with* Kılıçman, Adem; Li, Chen-Kuan) An extension of a result on the non-commutative neutrix convolution product of distributions. (English summary) **2001b:46057**
— (*with* Kılıçman, Adem; Nicholas, Joel D.) An existence theorem for the commutative neutrix product of distributions. (English summary) **2001j:46049**
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**González Vieli, Francisco Javier** Inversion de Fourier ponctuelle des distributions à support compact. (French summary) [Pointwise Fourier inversion of compactly supported distributions] **2001i:46066**
**Gülen, Ümit** *see* **Özçağ, Emin et al., 2001d:46054**
**Jolevska-Tuneska, Biljana** (*with* Fisher, Brian) An existence theorem for the non-commutative neutrix product of distributions. (English summary) **2001b:46058**
**Kamiński, Andrzej** (*with* Perišić, Dušanka; Pilipović, Stevan S.) The convolution and convolutors in Gel'fand-Shilov spaces of distributions. (English summary) **2001h:46062**
**Kananthai, A.** On the multiplicative product of the Dirac-delta distribution on the hypersurface. (Russian summary) **2001b:46059**
**Kılıçman, Adem** (*with* Fisher, Brian) Some results on the commutative product of distributions. (English summary) **2001b:46060**
— *see also* **Fisher, Brian et al., 2001b:46057**; **2001d:46053** *and* **2001j:46049**
**Kipriyanov, I. A.** The Fourier-Bessel transform and fractional powers of differential operators. (Russian) **2001i:46067**
**Li, Chen-Kuan** The product of $r^{-k}$ and $\nabla\delta$ on $\mathbf{R}^m$. (English summary) **2001i:46068**
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**Li, Ya-Qing** The harmonic product of $\delta(x_1,\dots,x_n)$ and $\delta(x_1)$ and two combinatorial identities. (English summary) **2001k:46062**
**Liu, Zhen Hai** *see* **Fisher, Brian et al., 2001i:46065**
**Lozanov-Crvenković, Zagorka** (*with* Perišić, Dušanka) Generalized Bochner-Schwartz theorem for tempered ultradistributions. (English summary) **2001m:46083**
**Meise, Reinhold** *see* **Bonet, José et al., 2001c:46077** *and* **2001e:46071**
**Meloni, Giancarlo** (*with* Munarini, Emanuele) Purely algebraic theories for elementary operational calculus and generalized functions. (English summary) **2001h:46063**
**Munarini, Emanuele** *see* **Meloni, Giancarlo, 2001h:46063**
**Nicholas, Joel D.** *see* **Fisher, Brian et al., 2001i:46065**; **2001j:46049** *and* **2001m:46082**
**Okada, Yasunori** On the characteristics for convolution equations in tube domains. (English summary) **2001h:46064**
**Özçağ, Emin** (*with* Gülen, Ümit; Fisher, Brian) On the distribution $\delta_+^k$. (English summary) **2001d:46054**
**Pehlivan, Serpil** *see* **Fisher, Brian et al., 2001d:46053**
**Perišić, Dušanka** *see* **Kamiński, Andrzej et al., 2001h:46062** *and* **Lozanov-Crvenković, Zagorka, 2001m:46083**
**Pilipović, Stevan S.** *see* **Kamiński, Andrzej et al., 2001h:46062**
**Richards, Ian** (*with* Youn, Heekyung K.) Localization and multiplication of distributions. (English summary) **2001d:46055**
**Rocca, M. C.** *see* **Aguirre Téllez, Manuel Antonio et al., 2001c:46074** *and* **Bollini, C. G. et al., 2001c:46076**
**Triebel, Hans** Taylor expansions of distributions. (English summary) **2001c:46078**
**Truong Van Thuong** Some properties of functions with bounded spectrum. (English summary) **2001g:46095**
**Uchida, Motoo** On an infinite convolution product of measures. (English summary) **2001m:46084**
**Youn, Heekyung K.** *see* **Richards, Ian, 2001d:46055**

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**Abdullah, Saleh** On the space $O_c'(\mathscr{F}_M';\mathscr{F}_M')$ and its dual. (English summary) **2001i:46063**
**Aguirre Téllez, Manuel Antonio** The inverse ultrahyperbolic Marcel Riesz kernel. (English summary) **2001g:46096**
**Anufrieva, U.** *see* **Melnikova, Irina V. et al., 2001e:47072**
**Bagley, Ronald L.** (*with* Torvik, Peter J.) On the existence of the order domain and the solution of distributed order equations. I. (English summary) **2001h:34002**
— (*with* Torvik, Peter J.) On the existence of the order domain and the solution of distributed order equations. II. (English summary) **2001h:34003**
**Bonet, José** Hypercyclic and chaotic convolution operators. (English summary) **2001g:47053**
**Camyshev, Andrei** On the $A$-property of trajectories for Stieltjes differential equations. (English summary) **2001g:34009**
**Cataná, Viorel** The "strongly partial wave front set" of a distribution and almost hypoelliptic pseudodifferential operators. (English summary) **2001j:58046**
**Chung, Soon-Yeong** The edge of the wedge theorems and applications. (English summary) **2001g:32015**
**Damyanov, Blagovest P.** On the product of distributions in Colombeau algebra. (English summary) **2001j:46053**
— On Colombeau product of distributions of several variables. **2001f:46064**
— On Colombeau distributional products of Mikusiński type.
**Estrada, Ricardo** *see* **Ulate, Carlos Ml., 2001e:41041**
**Falaleev, M. V.** Fundamental operator functions of singular differential operators in Banach spaces. (Russian. Russian summary) **2001k:34102**
**Filinkov, A.** *see* **Melnikova, Irina V. et al., 2001e:47072**
**Ishi, Hideyuki** Positive Riesz distributions on homogeneous cones. (English summary) **2001g:43014**
**Ishimura, Ryuichi** (*with* Okada, Yasunori) Analytic continuation of solutions to differential-difference equations. (Japanese) (*see* **2000g:00062**)
**Iwaniec, Tadeusz** (*with* Verde, Anna) On the operator $\mathscr{J}(f)=f\log|f|$. (English summary) **2001f:42034**
**Kalpakam, N. V.** *see* **Karunakaran, V., 2001m:44012**
**Kananthai, A.** Distribution solutions of the third order Euler equation. (English summary) **2001k:34013**
— On the product of the ultra-hyperbolic operator related to the elastic waves. (Russian summary) **2001d:35123**
— On the convolutions of the diamond kernel of Marcel Riesz. (English summary) **2001d:35141**
— On the convolution equation related to the $N$-dimensional ultra-hyperbolic operator. (English summary) **2001a:35128**
**Karunakaran, V.** (*with* Kalpakam, N. V.) Boehmians representing measures. (English summary) **2001m:44012**
**Kasperski, Andrzej** On multidistributions and X-distributions. **2001d:46049**
**Kozhevnikov, Alexander** (*with* Roĭtberg, Ya. A.) Parameter-elliptic boundary value problems for Douglis-Nirenberg systems in complete scales of Banach spaces of distributions. (Ukrainian summary)
**Lagarias, Jeffrey C.** Mathematical quasicrystals and the problem of diffraction. (English summary) **2001m:52032**
**Li, Bang-He** (*with* Li, Ya-Qing) On the relation between the model product and the harmonic product of distributions. (English summary) **2001j:46054**
**Li, Ya-Qing** *see* **Li, Bang-He, 2001j:46054**
**Lozanov-Crvenković, Zagorka** (*with* Perišić, Dušanka) Spaces of tempered ultradistributions and differential equations. (English summary) **2001d:46050**
**Marti, J.-A.** (*with* Nuiro, S. P.) Analyse algébrique d'un problème de Dirichlet non linéaire et singulier. (French summary) [Algebraic analysis of a singular nonlinear Dirichlet problem] **2001e:35070**
**Melnikova, Irina V.** (*with* Anufrieva, U.; Filinkov, A.) Laplace transform of $K$-semigroups and well-posedness of Cauchy problems. (English summary) **2001e:47072**
**Mijatović, Milorad** (*with* Pilipović, Stevan S.) Integrated semigroups and distribution semigroups—Cauchy problem. **2001h:47066**
**Nuiro, S. P.** *see* **Marti, J.-A., 2001e:35070**
**Okada, Yasunori** *see* **Ishimura, Ryuichi, (2000g:00062)**
**Palmgren, Erik** Constructive nonstandard representations of generalized functions. (English summary) **2001m:03127**
**Perišić, Dušanka** *see* **Lozanov-Crvenković, Zagorka, 2001d:46050**
**Pilipović, Stevan S.** (*with* Stojanović, Mirjana) Nonlinear quasiasymptotic expansion at zero to generalized solutions. (English summary) **2001j:35183**
— *see also* **Mijatović, Milorad, 2001h:47066**
**Rakhimov, Abdumalik A.** On the summability of multiple Fourier trigonometric series of distributions. (Russian)
**Rodríguez-Salinas, Baltasar** On the space $\mathscr{Q}'(I)$ of sequential distributions. (English summary) **2001f:46060**
**(Roĭtberg, I. Ya.)** *see* **Roĭtberg, Ya. A., 2001g:35003**
**Roĭtberg, Ya. A.** ★ Boundary value problems in the spaces of distributions. (English summary) **2001g:35003**
— *see also* **Kozhevnikov, Alexander**
**Stojanović, Mirjana** *see* **Pilipović, Stevan S., 2001j:35183**
**Torvik, Peter J.** *see* **Bagley, Ronald L., 2001h:34002** *and* **2001h:34003**
**Trione, Susana Elena** On the elementary $(P\pm i0)^{\lambda}$-ultrahyperbolic solution of the Klein-Gordon operator iterated $k$-times. (English summary) **2001e:35123**
**Ubøe, Jan** Measurements of ordinary and stochastic differential equations. (English summary) **2001f:34009**
**Ulate, Carlos Ml.** (*with* Estrada, Ricardo) A distributional summation formula of Euler-Maclaurin type in two variables. (Spanish. English and Spanish summaries) **2001e:41041**
**Verde, Anna** *see* **Iwaniec, Tadeusz, 2001f:42034**

## 46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

**Aguirre Téllez, Manuel Antonio** The inverse ultrahyperbolic Marcel Riesz kernel. (English summary) **2001g:46096**
**Armeanu, Ion** Windowed Fourier transform for distributions. (English summary) **2001c:46079**
**Banerji, P. K.** (*with* Gehlot, Kuldeep S.) A real inversion formula for the generalized Stieltjes transform on the space $F_{p,\alpha}$. (English summary) **2001c:46080**
**Betancor, Jorge J.** On asymptotic behaviours of Boehmians and Zemanian distributions. (English summary) **2001d:46056**
— (*with* Rodríguez-Mesa, Lourdes) Weighted inequalities for Hankel convolution operators. (English summary) **2001e:46072**
— A generalized Hankel convolution on Zemanian spaces. (English summary) **2001c:46081**
— (*with* González Rodríguez, Benito) Spaces of $\mathscr{D}_{L^p}$-type and the Hankel convolution. (English summary) **2001c:46082**
**Cho, Jonggyu** (*with* Kim, Kwang Whoi) Real version of Paley-Wiener-Schwartz theorem for ultradistributions with ultradifferentiable singular support. (English summary) **2001f:46062**
**Chung, Jaeyoung** (*with* Chung, Soon-Yeong; Kim, Dohan) Real version of Paley-Wiener theorem for hyperfunctions and ultradistributions. (English summary) **2001m:46085**
**Chung, Soon-Yeong** A temperature transform and a biharmonic analysis on temperatures. (English summary) **2001c:46083**
— *see also* **Chung, Jaeyoung et al., 2001m:46085**
**Cruz-Báez, Domingo Israel** (*with* Rodríguez Expósito, José) New inversion formulas for the Krätzel transformation. (English summary) **2001k:46063**
**Drozhzhinov, Yu. N.** (*with* Zav'yalov, B. I.) Tauberian-type theorems for a generalized multiplicative convolution. (Russian. Russian summary) **2001f:46063**

— (*with* Zav′yalov, B. I.) Wiener-type Tauberian theorems for generalized functions on the half-axis. (Russian. Russian summary) **2001h:46065**
**Florito, Giovanni** On Laplace and Fourier transforms of periodically monotone functions and distributions. (English summary) **2001j:46050**
**Fujita, Keiko** (*with* Morimoto, Mitsuo) Conical Fourier transform of Hardy space of harmonic functions on the Lie ball. (English summary) **2001k:46064**
**Gehlot, Kuldeep S.** *see* **Banerji, P. K., 2001c:46080**
**Ghosh, J. D.** On the Weierstrass transform for distributions.
**González Rodríguez, Benito** (*with* Negrín, E. R.) Operational calculi for Kontorovich-Lebedev and Mehler-Fock transforms on distributions with compact support. (English summary) **2001e:46073**
— *see also* **Betancor, Jorge J., 2001c:46082** *and* **Hayek Calil, Nácere, 2001e:46074**
**Gröchenig, Karlheinz** (*with* Zimmermann, Georg) Hardy's theorem and the short-time Fourier transform of Schwartz functions. (English summary) **2001k:46065**
**Hayek Calil, Nácere** (*with* González Rodríguez, Benito) Convolution for the Mehler-Fock transform of generalized functions. (English summary) **2001e:46074**
**Jones, D. S.** Singularities of Fourier transforms: a tribute to M. J. Lighthill. (English summary) **2001i:46069**
**Kamiński, Andrzej** (*with* Perišić, Dušanka; Pilipović, Stevan S.) Hilbert transform and singular integrals on the spaces of tempered ultradistributions. (English summary) **2001i:46070**
— (*with* Perišić, Dušanka; Pilipović, Stevan S.) On various integral transformations of tempered ultradistributions. (English summary) **2001h:46066**
**Karunakaran, V.** (*with* Venugopal, T.) Convolution transform for generalized functions. (English summary) **2001b:46061**
— (*with* Venugopal, T.) A new space for Fourier transform. (English summary) **2001e:46075**
**Kim, Dohan** *see* **Chung, Jaeyoung et al., 2001m:46085**
**Kim, Kwang Whoi** *see* **Cho, Jonggyu, 2001f:46062**
**Kuribayashi, Yukio** On pseudo-Fourier transforms. **2001e:46076**
**Malgonde, S. P.** On the generalized Hankel type integral transformation of generalized functions. (English summary) **2001c:46084**
**Morimoto, Mitsuo** *see* **Fujita, Keiko, 2001k:46064**
**Negrín, E. R.** *see* **González Rodríguez, Benito, 2001e:46073**
**Nikolić-Despotović, D.** *see* **Pilipović, Stevan S. et al., 2001k:46066**
**Perišić, Dušanka** *see* **Kamiński, Andrzej et al., 2001h:46066** *and* **2001i:46070**
**Pilipović, Stevan S.** (*with* Stojanović, Mirjana; Nikolić-Despotović, D.) The quasiasymptotic expansion at zero and generalized Watson lemma for Colombeau generalized functions. (English summary) **2001k:46066**
— *see also* **Kamiński, Andrzej et al., 2001h:46066** *and* **2001i:46070**
**Rodríguez Expósito, José** *see* **Cruz-Báez, Domingo Israel, 2001k:46063**
**Rodríguez-Mesa, Lourdes** *see* **Betancor, Jorge J., 2001e:46072**
**Schmeelk, John** Quasiasymptotic behavior of a generalized Stieltjes transform in a generalized dual Fock space. (English summary) **2001i:46071**
— Some wavelet transforms on new generalized functions. (English summary) **2001m:46086**
**Skórnik, Urszula** A remark on elements of $D'_{L^p}(\mathbf{R})$ as boundary values of holomorphic functions. (English summary) **2001c:46085**
**Stojanović, Mirjana** *see* **Pilipović, Stevan S. et al., 2001k:46066**
**Trione, Susana Elena** On the Laplace transform of $(m^2 + P \pm i0)^{\lambda}$. (English summary) **2001m:46087**
**Venugopal, T.** *see* **Karunakaran, V., 2001b:46061** *and* **2001e:46075**
**Zav′yalov, B. I.** *see* **Drozhzhinov, Yu. N., 2001f:46063** *and* **2001h:46065**
**Zayed, Ahmed I.** Fractional Fourier transform of generalized functions. (English summary) **2001d:46057**
**Zimmermann, Georg** *see* **Gröchenig, Karlheinz, 2001k:46065**

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**Agrawal, Nand Kishore** *see* **Mahato, Anil Kumar**
**Bantă, Valeriu** An extension of the Hausdorff-Young inequality. (English summary)
**Cerutti, R. A.** (*with* Trione, Susana Elena) Some properties of the generalized causal and anticausal Riesz potentials. (English summary) **2001j:47054**
**Chaudhary, M. S.** (*with* Thorat, S. P.) On the distributional $n$-dimensional Hartley transformation. (English summary) **2001c:44002**
**Chung, Jaeyoung** *see* **Kim, Dohan et al.**
**Chung, Soon-Yeong** *see* **Kim, Dohan et al.**
**Clerc, Jean-Louis** A generalized Hecke identity. (English summary) **2001h:42019**
**Cruz-Báez, Domingo Israel** (*with* Rodríguez Expósito, José) A generalization of the $K$ transform on spaces of generalized functions. (English summary) **2001f:44003**
— On nonlinear Hankel potentials. (English summary) **2001j:31005**
**Durán, Ana Lía** (*with* Estrada, Ricardo) The analytic continuation of moment functions and zeta functions. (English summary) **2001e:46079**
**Estrada, Ricardo** *see* **Durán, Ana Lía, 2001e:46079**
**Gupta, Awadhesh Chandra** (*with* Mahato, Anil Kumar) Generalized Laplace transform of Banach space valued distributions. (English summary)
**Kalpakam, N. V.** *see* **Karunakaran, V., 2001e:44004** *and* **2001i:44011**
**Karunakaran, V.** (*with* Kalpakam, N. V.) Weierstrass transform for Boehmians. (English summary) **2001i:44011**
— (*with* Kalpakam, N. V.) Hilbert transform for Boehmians. (English summary) **2001e:44004**
**Katsevich, Alexander** Asymptotics of pseudodifferential operators acting on functions with corner singularities. (English summary) **2001d:47080**
**Kim, Dohan** (*with* Chung, Soon-Yeong; Chung, Jaeyoung) A survey on sampling theory. (Korean. Korean summary)
**Lee, Yuh Jia** (*with* Shih, Hsin-Hung) The Segal-Bargmann transform for Lévy functionals. (English summary) **2001c:60107**
**Mahato, Anil Kumar** (*with* Agrawal, Nand Kishore) Generalized convolution for $K$-transformation. (English summary)
— *see also* **Gupta, Awadhesh Chandra** *and* **Mahto, Jay Ram**
**Mahto, Jay Ram** (*with* Mahato, Anil Kumar) Some abelian theorems for distributional Hankel-Clifford transformation. (English summary)
**Nemzer, Dennis** A uniqueness theorem for Boehmians of analytic type. (English summary) **2001k:44007**
**Rodríguez Expósito, José** *see* **Cruz-Báez, Domingo Israel, 2001f:44003**
**Shih, Hsin-Hung** *see* **Lee, Yuh Jia, 2001c:60107**
**Thorat, S. P.** *see* **Chaudhary, M. S., 2001c:44002**
**Trione, Susana Elena** *see* **Cerutti, R. A., 2001j:47054**
**Weisz, Ferenc** A generalization for Fourier transforms of a theorem due to Marcinkiewicz. (English summary) **2001m:42024**
**Zaidman, Samuel** Estimate for the commutator $[A(x, D), I_s]$ in $\mathscr{B}_{1,\mathscr{P}}(\mathbf{R}^n)$ spaces. (English summary) **2001h:47086**

## 46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58J15]

**Chung, Jaeyoung** (*with* Chung, Soon-Yeong; Kim, Dohan; Kim, Hee Jung) Trigonometric series and almost periodic generalized functions. (English summary) **2001b:46062**
**Chung, Soon-Yeong** (*with* Na, Ji-Young) Rotation invariant generalized functions. (English summary) **2001k:46067**
— *see also* **Chung, Jaeyoung et al., 2001b:46062**
**Esterle, Jean** (*with* Gay, Roger[1]) Product of hyperfunctions on the circle. (English summary) **2001h:46067**
**Gay, Roger[1]** *see* **Esterle, Jean, 2001h:46067**
**Hoang Ngoc Chien** A note on the support and the spectrum of a hyperfunction. (English summary)
**Kim, Dohan** *see* **Chung, Jaeyoung et al., 2001b:46062**
**Kim, Hee Jung** *see* **Chung, Jaeyoung et al., 2001b:46062**
**Komatsu, Hikosaburo** Convolutions of hyperfunctions of one variable and Laplace hyperfunctions. (English summary) **2001b:46063**
**Morimoto, Mitsuo** (*with* Suwa, Masanori) A characterization of analytic functionals on the sphere. I. (English summary) **2001k:46068**
**Na, Ji-Young** *see* **Chung, Soon-Yeong, 2001k:46067**
**Suwa, Masanori** *see* **Morimoto, Mitsuo, 2001k:46068**

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**Boman, Jan** Uniqueness and non-uniqueness for microanalytic continuation of ultradistributions. **2001g:32014**
**Brüning, Erwin A. K.** *see* **Nagamachi, S., 2001m:81161**
**Chang, Kun Soo** (*with* Kim, Byung Soo[1]; Yoo, Il) Integral transform and convolution of analytic functionals on abstract Wiener space. (English summary) **2001h:28018**
**Chung, Jaeyoung** (*with* Chung, Soon-Yeong; Kim, Dohan) Real version of Paley-Wiener theorem for hyperfunctions and ultradistributions. (English summary) **2001m:46085**
**Chung, Soon-Yeong** *see* **Chung, Jaeyoung et al., 2001m:46085**
**Cordaro, Paulo D.** Representation of hyperfunction solutions in a hypo-analytic structure. **2001f:35070**
**Eida, Atsuhiko** (*with* Pilipović, Stevan S.) Suppleness of some quotient spaces of microfunctions. (English summary) **2001j:32006**
**Fujita, Keiko** On the double series expansion with harmonic components. **2001m:32004**
**Kashiwara, Masaki** (*with* Schapira, Pierre) Ind-sheaves, distributions, and microlocalization. **2001a:58027**
**Kim, Byung Soo[1]** *see* **Chang, Kun Soo et al., 2001h:28018**
**Kim, Dohan** *see* **Chung, Jaeyoung et al., 2001m:46085**
**Kytmanov, A. M.** (*with* Tsikh, I. A.) Harmonic representation of hyperfunctions defined on a hypersurface. (Russian) **2001a:32008**
**Langenbruch, Michael** Extension of analyticity for solutions of partial differential operators. (English summary) **2001k:35007**
— Localizations of partial differential operators and surjectivity on real analytic functions. (English summary) **2001f:35075**
**Liess, O. E.** Fourier transforms in spaces of hyperfunctions and Hartogs' type phenomena. (English summary) **2001a:35007**
**Muro, Masakazu** Hyperfunction solutions of invariant linear differential equations on prehomogeneous vector spaces. (English summary) (*see* **2001m:00025**)
**Nagamachi, S.** (*with* Brüning, Erwin A. K.) Hyperfunction quantum field theory: analytic structure, modular aspects, and local observable algebras. (English summary) **2001m:81161**
**Okada, Yasunori** On a class of convolution systems in one variable. (*see* **2001f:35006**)
**Pilipović, Stevan S.** *see* **Eida, Atsuhiko, 2001j:32006**
**Rosay, Jean-Pierre** (*with* Stout, Edgar Lee) An approximation theorem related to good compact sets in the sense of Martineau. (English and French summaries) **2001g:32026**
**Schapira, Pierre** *see* **Kashiwara, Masaki, 2001a:58027**
**Stout, Edgar Lee** *see* **Rosay, Jean-Pierre, 2001g:32026**
**Tsikh, I. A.** *see* **Kytmanov, A. M., 2001a:32008**
**Wakabayashi, Seiichiro** ★ Classical microlocal analysis in the space of hyperfunctions. **2001g:35010**
**Yoo, Il** *see* **Chang, Kun Soo et al., 2001h:28018**

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**Lecture Notes in Mathematics** *see* **Wakabayashi, Seiichiro, 2001g:35010**

## 46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

**Budinčević, M.** (*with* Lozanov-Crvenković, Zagorka; Perišić, Dušanka) Representation theorems for tempered ultradistributions. (English summary) **2001e:46077**
**Carmichael, Richard D.** (*with* Kamiński, Andrzej; Pilipović, Stevan S.) ★ Notes on boundary values in ultradistribution spaces. **2001b:46064**
**Kamiński, Andrzej** *see* **Carmichael, Richard D. et al., 2001b:46064**
**Lozanov-Crvenković, Zagorka** *see* **Budinčević, M. et al., 2001e:46077**

**Manova Erakovič, Vesna** Distributions generated with boundary values of functions of the space $H^p$, $1 \le p < \infty$. (English and Macedonian summaries) **2001m:46088**
— Introduction of Blaschke distributions and approximation of distribution in $D'$ by a sequence of finite Blaschke distributions. (English and Macedonian summaries) **2001m:46089**
**Perišić, Dušanka** *see* **Budinčević, M. et al., 2001e:46077**
**Pilipović, Stevan S.** *see* **Carmichael, Richard D. et al., 2001b:46064**
**Skórnik, Urszula** Elements of $D'_{L^p}(\mathbf{R})$ as boundary values of holomorphic functions. (English summary) **2001h:46068**

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**Chung, Jaeyoung** *see* **Kim, Dohan et al.**
**Chung, Soon-Yeong** *see* **Kim, Dohan et al.**
**Eida, Atsuhiko** (*with* Pilipović, Stevan S.) Suppleness of some quotient spaces of microfunctions. (English summary) **2001j:32006**
**Kim, Dohan** (*with* Chung, Soon-Yeong; Chung, Jaeyoung) A survey on sampling theory. (Korean. Korean summary)
**Liess, O. E.** Fourier transforms in spaces of hyperfunctions and Hartogs' type phenomena. (English summary) **2001a:35007**
**Pilipović, Stevan S.** *see* **Eida, Atsuhiko, 2001j:32006**
**Skórnik, Urszula** A remark on elements of $D'_{L^p}(\mathbf{R})$ as boundary values of holomorphic functions. (English summary) **2001e:46085**

## 46F25 Distributions on infinite-dimensional spaces [see also 58C35]

**Barbulyak, L. V.** Biorthogonal systems of Appell polynomials for smooth measures on $\mathbf{R}_+$. (Ukrainian. Ukrainian summary) **2001h:46069**
**Berezanskiĭ, Yuriĭ Makarovich** Infinite dimensional non-Gaussian analysis connected with generalized translation operators. (English summary) **2001e:46078**
**Delcroix, Antoine** (*with* Scarpalezos, Dimitris) Topology on asymptotic algebras of generalized functions and applications. (English summary) **2001b:46065**
**Kachanovskiĭ, N. A.** Biorthogonal Appell-like systems in a Hilbert space. (English summary) **2001d:46058**
— Dual Appell-like systems and finite order spaces in non-Gaussian infinite dimensional analysis. (English summary) **2001g:46097**
— (*with* Koshkīn, S. V.) Minimality of Appell-like systems and embeddings of test function spaces in a generalization of white noise analysis. (English summary) **2001g:46098**
— On a biorthogonal approach to the construction of non-Gaussian analysis. (English summary) **2001j:46051**
— On biorthogonal approach to a construction of non-Gaussian analysis and application to the Poisson analysis on the configuration space. (English summary) **2001h:46070**
**Koshkīn, S. V.** *see* **Kachanovskiĭ, N. A., 2001g:46098**
**Kozak, Agnieszka Anna** (*with* Kozitskiĭ, Yu. V.) Nonlinear Gaussian transformation. (English, Russian and Ukrainian summaries) **2001m:46090**
**Kozitskiĭ, Yu. V.** *see* **Kozak, Agnieszka Anna, 2001m:46090**
**Kubo, Izumi** (*with* Kuo, Hui-Hsiung; Sengupta, Ambar N.) White noise analysis on a new space of Hida distributions. (English summary) **2001k:46069**
**Kuo, Hui-Hsiung** *see* **Kubo, Izumi et al., 2001k:46069**
**Litvinov, E. V.** (*with* Us, G. F.) Dual Appell systems in non-Gaussian white noise calculus. (English summary) **2001d:46059**
**Ouerdiane, Habib** (*with* Rezgui, Anis) Représentation intégrale de fonctionnelles analytiques positives. (English and French summaries) [Integral representation of positive analytic functionals] **2001j:46052**
**Rezgui, Anis** *see* **Ouerdiane, Habib, 2001j:46052**
**Scarpalezos, Dimitris** *see* **Delcroix, Antoine, 2001b:46065**
**Sengupta, Ambar N.** *see* **Kubo, Izumi et al., 2001k:46069**
**Us, G. F.** Functions of countable families of commuting selfadjoint operators. (English summary) **2001d:46060**
— *see also* **Litvinov, E. V., 2001d:46059**

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**Asai, Nobuhiro** (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Feynman integrals associated with Albeverio-Høegh-Krohn and Laplace transform potentials. (English summary) **2001k:60091**
**Benth, Fred Espen** (*with* Gjessing, Håkon K.) A nonlinear parabolic equation with noise. A reduction method. (English summary) **2001g:60152**
**Berezanskiĭ, Yuriĭ Makarovich** (*with* Kondrat'ev, Yu. G.) Biorthogonal systems in hypergroups: an extension of non-Gaussian analysis. (English summary) **2001h:60120**
— On the theory of commutative Jacobi fields. (English summary) **2001f:47050**
**Cartier, Pierre** (*with* DeWitt-Morette, Cécile) Functional integration. (English summary) **2001m:58023**
**Chang, Kun Soo** (*with* Kim, Byung Soo[1]; Yoo, Il) Integral transform and convolution of analytic functionals on abstract Wiener space. (English summary) **2001h:28018**
**Chung, Dong Myung** (*with* Ji, Un Cig) Multi-parameter transformation groups on white noise functionals. (English summary) **2001m:60151**
**DeWitt-Morette, Cécile** *see* **Cartier, Pierre, 2001m:58023**
**Feller, M. N.** Cauchy problem for non-linear equations involving the Levy Laplacian with separable variables. (English summary) **2001f:47102**
**Finkelshtein, D. L.** (*with* Us, G. F.) On exponential model of Poisson spaces. (English summary) **2001j:28012**
**Gjessing, Håkon K.** *see* **Benth, Fred Espen, 2001g:60152**
**Grothaus, Martin** (*with* Streit, Ludwig) Quadratic actions, semi-classical approximation, and delta sequences in Gaussian analysis. (English summary) **2001b:81064**
**Ji, Un Cig** Integral kernel operators on regular generalized white noise functions. (English summary) **2001i:60107**
— Cauchy problems in white noise analysis and an application to finite dimensional PDEs. II. (*see* **2001e:60003**)
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**Kubo, Izumi** (*with* Kuo, Hui-Hsiung) Simple proof of Hida distribution characterization theorem. (English summary) **2001d:60072**
— Entire functionals and generalized functionals in white noise analysis. (*see* **2001d:00027**)
— *see also* **Asai, Nobuhiro et al., 2001k:60091**
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**Us, G. F.** *see* **Finkelshtein, D. L., 2001j:28012**
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**Yoo, Il** *see* **Chang, Kun Soo et al., 2001h:28018**

## 46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)

**Damyanov, Blagovest P.** On the product of distributions in Colombeau algebra. (English summary) **2001j:46053**
— On Colombeau product of distributions of several variables. **2001f:46064**
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**Li, Bang-He** (*with* Li, Ya-Qing) On the relation between the model product and the harmonic product of distributions. (English summary) **2001j:46054**
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**Pilipović, Stevan S.** (*with* Stojanović, Mirjana) Quasiasymptotics at zero and nonlinear problems in a framework of Colombeau generalized functions. (English summary) **2001j:46055**
— (*with* Scarpalezos, Dimitris) Colombeau generalized ultradistributions. (English summary) **2001m:46091**
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**Stojanović, Mirjana** *see* **Pilipović, Stevan S., 2001j:46055**

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**Damyanov, Blagovest P.** Singular distribution products in Colombeau algebra. (English summary) **2001b:46056**
— On Mikusiński type products of distributions. (English summary) **2001g:46093**
**Danilov, Vladimir G.** (*with* Maslov, Viktor P.; Shelkovich, V. M.) Algebras of the singularities of singular solutions of first-order quasilinear strictly hyperbolic systems. (Russian. Russian summary) **2001f:35244**
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— (*with* Oberguggenberger, Michael) Group analysis of differential equations and generalized functions. (English summary) **2001e:35010**
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**Ligęza, Jan** Boundary value problems for ordinary linear differential equations in the Colombeau algebra. (English summary) **2001e:34026**
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**Oberguggenberger, Michael** *see* **Kunzinger, Michael, 2001c:35010** *and* **Grosse, Harald et al., 2001g:81149**
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**Ding, Xia Xi** (*with* Luo, Peizhu) Generalized expansions in Hilbert space. (English summary) **2001b:47033**
— (*with* Luo, Peizhu) Weak convergence of some series. (English summary) **2001m:46042**
**Gröchenig, Karlheinz** (*with* Heil, Christopher) Modulation spaces and pseudodifferential operators. (English summary) **2001a:47051**
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**Ha Huy Bang** (*with* Truong Van Thuong) Density of a collection of functions in $N_\Phi$-spaces. (English summary) **2001k:46046**
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**Luo, Peizhu** *see* **Ding, Xia Xi, 2001b:47033** *and* **2001m:46042**
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**Truong Van Thuong** *see* **Ha Huy Bang, 2001k:46046**

# 46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [see also 28–XX, 46Txx]

## 46G05 Derivatives [see also 46T20, 58C20, 58C25]

**Averbukh, Vladimir I.** On boundedly-convex functions on pseudo-topological vector spaces. (English summary) **2001a:46042**
**Coşulschi, Mirel** *see* **Mustafa, Octavian, 2001m:46093**
**Ferrer, Jesús** On Rolle's theorem in spaces of infinite dimension. (English summary) **2001i:46072**
**Giles, John R.** (*with* Sciffer, Scott) Lipschitz functions on subspaces of Asplund generated spaces are generically virtually pseudo-regular. (English summary) **2001m:46092**
**Gorokhovik, Valentin V.** (*with* Zabreĭko, Petr Petrovich) Fréchet differentiability of multimappings. (Russian. English summary) **2001b:46067**
**Lindenstrauss, Joram** (*with* Preiss, David) A new proof of Fréchet differentiability of Lipschitz functions. (English summary) **2001g:46099**
**Matoušek, Jiří** (*with* Matoušková, Eva) A highly non-smooth norm on Hilbert space. (English summary) **2001f:46065**
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**Mustafa, Octavian** (*with* Coşulschi, Mirel) Perturbation lemmas in Banach spaces. (English summary) **2001m:46093**
**Orlov, I. V.** A termwise differentiation in the inductive scales of the locally convex spaces. (English summary) **2001d:46061**
**Preiss, David** *see* **Lindenstrauss, Joram, 2001g:46099**
**Saitô, Kimiaki** (*with* Tsoi, Allanus H.) The Lévy Laplacian acting on Poisson noise functionals. (English summary) **2001i:46073**
**Sciffer, Scott** *see* **Giles, John R., 2001m:46092**
**Slezák, B.** On the primitives of differential one-maps. (English summary) **2001j:46056**
**Trombetta, Alessandro** An implicit function theorem in complete $F$-normed spaces. (English summary) **2001m:46094**
**Tsoi, Allanus H.** *see* **Saitô, Kimiaki, 2001i:46073**
**Uglanov, A. V.** The infinite-dimensional Lagrange problem. (Russian) **2001g:46100**
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**Anisiu, Valeriu** Null sets and $\beta$-differentiability of convex functions. (English summary) (*see* **2001k:00021a**)
**Bogdanskiĭ, Yu. V.** Essentially infinite-dimensional elliptic operators and P. Levy's problem. (English summary) **2001h:35190**
**Bounkhel, M.** (*with* Thibault, Lionel) Subdifferential regularity of directionally Lipschitzian functions. (English summary) **2001c:49024**
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**Elumalai, S.** (*with* Souruparani, Mercy) A characterization of best approximation and the operators in linear 2-normed spaces. (English summary) **2001m:46036**
**Farkas, Gyula[2]** (*with* Garay, Barnabas M.) The operator of inversion as an everywhere continuous nowhere differentiable function. (English summary) **2001k:47090**
— (*with* Garay, Barnabas M.) A non-differentiability result for the inversion operator between Sobolev spaces. (English summary) **2001i:47103**
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**Lavrent'ev, I. M.** (*with* Ščepanović, Radoje) On locally weakly semicontinuous functionals. (Russian) **2001g:47122**
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**Zheng, Xi Yin** Very differentiable and generic Frechet differentiable convex functions on Banach spaces. (English summary) **2001c:46028**

## 46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

**Colasante, Maria Luisa** *see* **Khurana, Surjit Singh, 2001f:46066**
**Duchoň, Miloslav** (*with* Haluška, Ján; Riečan, Beloslav) On the Choquet integral for Riesz space valued measure. (English summary) **2001h:46071**
**Fernández López, Antonio[2]** (*with* Naranjo, Francisco) AL- and AM-spaces of integrable scalar functions with respect to a Fréchet-valued measure. (English summary) **2001k:46070**
**Haluška, Ján** *see* **Duchoň, Miloslav et al., 2001h:46071**
**Hong, Zhen Jie** *see* **Zhao, Huan Guang, 2001b:46070**
**Kadets, V. M.** (*with* Zheltukhin, K.) Some remarks on vector measures duality. (English summary) **2001k:46071**
**Khurana, Surjit Singh** (*with* Colasante, Maria Luisa) Vector-valued free uniform measures. (English summary) **2001f:46066**
**Kumar, Sanjay** (*with* Prasad, Ramawatar) On properties of Dunford integral on Corson space. (English summary)
**Liu, Jun-ping** Some results on operator-valued measure and integration. (English and Chinese summaries) **2001m:46095**
**Marchena, B.** (*with* Piñeiro, C.) Absolutely $\lambda$-summable sequences lying in the range of a vector measure. I. (English summary) **2001j:46057**
**Michalak, Artur** On Pettis integrability of translations of functions in $L^\infty$. (English summary) **2001b:46068**
**Naranjo, Francisco** *see* **Fernández López, Antonio[2], 2001k:46070**
**Piñeiro, C.** *see* **Marchena, B., 2001j:46057**
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**Suslov, S. I.** Characterization of strongly exposed points in $L_2(T, X)$. (Russian. Russian summary) **2001g:46101**
**Swartz, Charles** Barrelledness of the space of Archimedean integrable functions. (English summary) **2001b:46069**

**Vladimirskaya, O. I.** The Lyapunov theorem for measures valued in Orlicz sequence spaces. (English summary) **2001k:46072**
**Volauf, Peter** On measures with values in partially ordered spaces. (English summary) **2001k:46073**
**Wang, Chonghu** (*with* Yang, Zhenhua) Some topological properties of Banach spaces and Riemann integration. (English summary) **2001d:46062**
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**Zhao, Huan Guang** (*with* Hong, Zhen Jie) Approximation and localization properties of bounded linear operators on $L^1(\mu)$. (Chinese. English and Chinese summaries) **2001b:46070**
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**Ziat, Hassan** On a characterization of Pettis integrable multifunctions. (English summary) **2001d:46063**

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**Cui, Cheng Ri** *see* **Yang, Dian Jun**
**D'Aniello, Emma** On the existence of vector measures with given marginals. (English summary) **2001k:28014**
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**Jiménez Guerra, P.** *see* **Ballve, M. E. et al., 2001f:28016** *and* **Balbas de la Corte, Alejandro et al., 2001m:28017**
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**Kang, Shin Min** *see* **Li, Rong Lu, 2001e:28018**
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**Kawasaki, Toshiharu** Order derivative and order Newton integral of operators in vector lattices. (English summary) **2001c:28020**
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**Muñoz-Bouzo, María J.** *see* **Ballve, M. E. et al., 2001f:28016** *and* **Balbas de la Corte, Alejandro et al., 2001m:28017**
**Musiał, K.** (*with* Macheras, N. D.) Liftings of Pettis integrable functions. (English summary) **2001h:46072**
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**Park, Chun Kee** Remarks on Denjoy-Dunford and Denjoy-Pettis integrals. (English summary) **2001i:26008**
**Paúl, Pedro J.** The space of Denjoy-Dunford integrable functions is ultrabornological. (English summary) **2001m:46081**
**Peña, Carlos C.** On vector valued smooth functions. (English summary) **2001f:44004**
**Pérez-Esteva, Salvador** *see* **Folch-Gabayet, Magali et al., 2001m:42041**
**Piñeiro, C.** *see* **Marchena, B., 2001m:46029**
**Popa, Dumitru** Sets which are dense in the space of all Pettis integrable functions. (English summary) **2001m:28004**
**Prado, Humberto** *see* **Lizama, Carlos, 2001g:44009**
**Radchenko, V. N.** Differentiability of integrals of real functions with respect to $L_0$-valued measures. (Russian. English and Ukrainian summaries) **2001c:28026**
**Randrianantoanina, Narcisse** Complemented copies of $l_1$ in spaces of vector measures and applications. (English summary) **2001i:46037**
**Ricker, Werner J.** *see* **Gaudry, G. I. et al., 2001i:43008**
**Rivera Ortún, María José** The de la Vallée Poussin theorem for vector valued measure spaces. (English summary) **2001g:28019**
**Sambucini, Anna Rita** Remarks on set valued integrals of multifunctions with non-empty bounded closed and convex values. (English summary)
**Song, Hai Zhou** Positive-definite functions from a locally compact abelian group to a $C^*$-algebra. (Chinese. English and Chinese summaries) **2001g:43006**
**Strauss, Werner** *see* **Macheras, N. D., 2001b:28007**
**Tseytlin, L. M.** *see* **Kadets, V. M., 2001e:28017**
**Uglanov, A. V.** Vector integrals. (Russian) **2001j:28010**
**Valadier, Michel** *see* **Amrani, Allal et al., 2001j:28004**
**Yang, Dian Jun** (*with* Cui, Cheng Ri) A Vitali-Hahn-Saks-Graves-Ruess type theorem for bounded measures. (Chinese. English and Chinese summaries)
**Ye, Guo Ju** (*with* An, Tian Qing) On Henstock-Dunford and Henstock-Pettis integrals. (English summary) **2001m:26019**
**Zhang, Qing Nian** (*with* Jiang, Li Zhi) The Orlicz-Pettis theorem for set-valued measures and its application. (Chinese. English and Chinese summaries)

## 46G12 Measures and integration on abstract linear spaces [see also 28C20, 46T12]

**Bogachev, Vladimir I.** Average approximations and moments of measures. (English summary) **2001d:46064**
**Holický, Petr** (*with* Zajíček, Luděk) Nondifferentiable functions, Haar null sets and Wiener measure. (English summary) **2001j:46058**
**Koshkin, S. V.** Levy-like continual means on spaces $L_p$. (English summary) **2001g:46102**
**Shcherbin, V. M.** Integrable maps of semiordered rings. (English summary) (*see* **2001c:47006**)
**Smolyanov, Oleg G.** *see* **von Weizsäcker, Heinrich, 2001d:46065**
**von Weizsäcker, Heinrich** (*with* Smolyanov, Oleg G.) Relations between smooth measures and their logarithmic gradients and derivatives. (Russian) **2001d:46065**
**Wu, Jian Rong[2]** Fubini theorems for set-valued and fuzzy integrals on Banach spaces. (English summary) **2001b:46071**
**Zajíček, Luděk** *see* **Holický, Petr, 2001j:46058**

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**Alghamdi, Mariam A.** *see* **Okb El-Bab, A. S., 2001a:46046**
**Baushev, A. N.** On the weak convergence of probability measures in Lebesgue spaces. (English summary)
**Becker, Richard Edouard** ★ Cônes convexes en analyse. (French. English and French summaries) [Convex cones in analysis] **2001c:46008**
**Berezanskiĭ, Yuriĭ Makarovich** (*with* Kondrat'ev, Yu. G.) Biorthogonal systems in hypergroups: an extension of non-Gaussian analysis. (English summary) **2001h:60120**
— Poisson measure as the spectral measure of Jacobi field. (English summary) **2001m:47056**
**Berti, Patrizia** (*with* Rigo, Pietro) Integral representation of linear functionals on spaces of unbounded functions. (English summary) **2001b:28016**
**Bogachev, Vladimir I.** Measures on topological spaces. **2001a:28015**
**Bondarenko, V. G.** Logarithmic derivatives of diffusion measures in a Hilbert space. (Russian. English and Ukrainian summaries) **2001m:60176**
**Brzeźniak, Zdzisław** (*with* Elworthy, K. David) Stochastic differential equations on Banach manifolds. (English summary) **2001i:58073**
**(Choquet, Gustave)** *see* **Becker, Richard Edouard, 2001c:46008**
**Elworthy, K. David** *see* **Brzeźniak, Zdzisław, 2001i:58073**
**Johnson, Gerald W.** (*with* Lapidus, Michel L.) ★ The Feynman integral and Feynman's operational calculus. **2001i:58015**
**Kachanovskiĭ, N. A.** Wick algebras and quantum free fields in Gaussian and non-Gaussian analysis. (English summary) **2001g:81153**
— On biorthogonal approach to a construction of non-Gaussian analysis and application to the Poisson analysis on the configuration space. (English summary) **2001h:46070**
**Kim, Byung Soo[1]** *see* **Yoo, Il et al., 2001c:28027**
**Kim, Young Sik** A change of scale formula for Wiener integrals of cylinder functions on the abstract Wiener space. II. (English summary)
**Kondrat'ev, Yu. G.** *see* **Berezanskiĭ, Yuriĭ Makarovich, 2001h:60120**
**Koval'chik, I. M.** (*with* Koval'chik, Yu. I.) On the Feynman integral in the space of continuous functions defined on a compact set. III. (Russian. English, Russian and Ukrainian summaries) **2001j:58019**
**Koval'chik, Yu. I.** *see* **Koval'chik, I. M., 2001j:58019**
**Kubo, Izumi** (*with* Kuo, Hui-Hsiung; Sengupta, Ambar N.) White noise analysis on a new space of Hida distributions. (English summary) **2001k:46069**
**Kuo, Hui-Hsiung** *see* **Kubo, Izumi et al., 2001k:46069**
**Lapidus, Michel L.** *see* **Johnson, Gerald W., 2001i:58015**
**Lee, Je Yoon** *see* **Yoo, Il et al., 2001c:28027**
**Li, Wenbo V.** (*with* Linde, Werner) Approximation, metric entropy and small ball estimates for Gaussian measures. (English summary) **2001c:60059**
**Linde, Werner** *see* **Li, Wenbo V., 2001c:60059**
**Matoušková, Eva** Lipschitz images of Haar null sets. (English summary) **2001a:46013**
**Muldowney, Pat** Feynman's path integrals and Henstock's non-absolute integration. (English summary) **2001g:28024**
**Okb El-Bab, A. S.** (*with* Alghamdi, Mariam A.) Exponentially convex functions depending on the norm. (English summary) **2001a:46046**
**Osswald, Horst** Infinitesimals in abstract Wiener spaces. (English summary) **2001m:60184**
**Park, Yeon-Hee** Banach algebra of functionals over paths in abstract Wiener space. (English summary) **2001m:28025**
**Rigo, Pietro** *see* **Berti, Patrizia, 2001b:28016**

**Riss, E. A.** The positivity principle for equivalent norms. (Russian) **2001i:46020**
**Robdera, Mangatiana A.** (*with* Saab, Paulette) The analytic complete continuity property. (English summary) **2001j:46019**
**Saab, Paulette** *see* **Robdera, Mangatiana A., 2001j:46019**
**Scarlatti, Sergio** On some new type of infinite-dimensional Laplacians. (English summary) **2001e:60009**
**Sengupta, Ambar N.** *see* **Kubo, Izumi et al., 2001k:46069**
**Uglanov, A. V.** ★ Integration on infinite-dimensional surfaces and its applications. (English summary) **2001c:46129**
— The infinite-dimensional Lagrange problem. (Russian) **2001g:46100**
**Yoo, Il** (*with* Lee, Je Yoon; Kim, Byung Soo[1]) The analytic Feynman integral over paths in abstract Wiener space. II. (English summary) **2001c:28027**

## 46G15 Functional analytic lifting theory [see also 28A51]

**Macheras, N. D.** *see* **Musial, K., 2001h:46072**
**Musial, K.** (*with* Macheras, N. D.) Liftings of Pettis integrable functions. (English summary) **2001h:46072**

## 46G20 Infinite-dimensional holomorphy [see also 32–XX, 46E50, 46T25, 58B12, 58C10]

**Boyd, Christopher** Holomorphic mappings and cardinality. (*see* **2001b:00021**)
**Carando, Daniel** (*with* Dimant, Verónica; Duarte, B.; Lassalle, Silvia) $K$-bounded polynomials. (English summary) **2001f:46068**
**Cepedello Boiso, Manuel** (*with* Hájek, Petr[1]) Analytic approximations of uniformly continuous functions in real Banach spaces. (English summary) **2001m:46097**
**Dimant, Verónica** *see* **Carando, Daniel et al., 2001f:46068**
**Dineen, Seán** ★ Complex analysis on infinite-dimensional spaces. (English summary) **2001a:46043**
— Canonical v. functional extensions of holomorphic functions. (*see* **2001b:00021**)
**Duarte, B.** *see* **Carando, Daniel et al., 2001f:46068**
**Galindo, Pablo** (*with* Moraes, Luiza Amália; Mujica, Jorge) Weak holomorphic convergence and bounding sets in Banach spaces. (English summary) **2001e:46080**
**García, Domingo** (*with* Lourenço, M. Lilian; Maestre, Manuel; Moraes, Luiza Amália) The spectrum of analytic mappings of bounded type. (English summary) **2001f:46069**
**González, Manuel** (*with* Gutiérrez del Alamo, Joaquín M.) Surjective factorization of holomorphic mappings. (English summary) **2001k:46074**
**Gutiérrez del Alamo, Joaquín M.** *see* **González, Manuel, 2001k:46074**
**Hájek, Petr[1]** *see* **Cepedello Boiso, Manuel, 2001m:46097**
**Hamada, Hidetaka** (*with* Kohr, Gabriela; Liczberski, Piotr) On some sufficient conditions for univalence in complex Banach spaces. (English summary) **2001e:46081**
**Harris, Lawrence A.** (*with* Reich, Simeon; Shoikhet, David) Dissipative holomorphic functions, Bloch radii, and the Schwarz lemma. **2001k:46074**
**Honda, Tatsuhiro** The growth theorem of biholomorphic mappings on a Banach space. (English summary) **2001h:46073**
**Isidro, José María[1]** (*with* Stachó, László L.) Holomorphic automorphisms of continuous products of balls. (English summary) **2001g:46103**
**Kapeluszny, Jarosław** (*with* Kuczumow, Tadeusz) A few properties of the Kobayashi distance and their applications. (English summary) **2001h:46074**
**Kaup, Wilhelm** On a Schwarz lemma for bounded symmetric domains. **2001b:46072**
**Kohr, Gabriela** *see* **Hamada, Hidetaka et al., 2001e:46081**
**Kuczumow, Tadeusz** (*with* Stachura, Adam) The Denjoy-Wolff theorem for $s$-condensing mappings. (English summary) **2001h:46075**
— *see also* **Kapeluszny, Jarosław, 2001h:46074**
**Lassalle, Silvia** *see* **Carando, Daniel et al., 2001f:46068**
**Liczberski, Piotr** *see* **Hamada, Hidetaka et al., 2001e:46081**
**Lourenço, M. Lilian** *see* **García, Domingo et al., 2001f:46069**
**Maestre, Manuel** *see* **García, Domingo et al., 2001f:46069**
**Matos, Mário C.** Absolutely summing holomorphic mappings. (English summary) **2001c:46086**
**Monadi, Abolfazl** (*with* Tavallaee, Narguess) Analytic maps in convergence spaces. (English summary) **2001b:46073**
**Moraes, Luiza Amália** Holomorphic mappings and weak continuity. (English summary) **2001d:46066**
— *see also* **Galindo, Pablo et al., 2001e:46080** *and* **García, Domingo et al., 2001f:46069**
**Muir, Jerry R., Jr.** Holomorphic idempotents and retracts in the unit ball of a commutative $C^*$-algebra with identity. (English summary) **2001e:46082**
**Mujica, Jorge** Ideals of holomorphic functions on infinite dimensional spaces. (English summary) **2001d:46067**
— *see also* **Galindo, Pablo et al., 2001e:46080**
**Nguyen Dinh Lan** (DFN)-valued meromorphic functions on (DFN)-spaces and the properties $(\widetilde{\Omega})$, (DN). (English summary) **2001m:46098**
— On the uniformity of meromorphic functions. (English summary) **2001c:46087**
— Structure of space of germs of holomorphic functions and Hartogs type theorem.
— $(LB^\infty)$-structure of spaces of germs of holomorphic functions. (English summary) **2001g:46104**
— *see also* **Nguyen Van Khue, 2001j:46059**
**Nguyen Van Khue** (*with* Nguyen Dinh Lan) The structure of type $(\Omega)$ of spaces of Banach-valued holomorphic germs. (English summary) **2001j:46059**
**Nishihara, Masaru** The extension of holomorphic functions on a nuclear space. **2001d:46068**
**Ouerdiane, Habib** (*with* Rezgui, Anis) Un théorème de Bochner-Minlos avec une condition d'intégrabilité. (French summary) [A Bochner-Minlos theorem with an integrability condition] **2001i:46075**
**Phan Thien Danh** *see* **Son, Duong Luong, 2001e:46083**
**Reich, Simeon** *see* **Harris, Lawrence A. et al., 2001k:46074**
**Rezgui, Anis** *see* **Ouerdiane, Habib, 2001i:46075**
**Shoikhet, David** *see* **Harris, Lawrence A. et al., 2001k:46074**
**Son, Duong Luong** (*with* Phan Thien Danh) Frechet-valued holomorphic functions on compact sets and the properties $(\overline{DN}, LB_\infty, \Omega)$. (English summary) **2001e:46083**
**Stachó, László L.** *see* **Isidro, José María[1], 2001g:46103**
**Stachura, Adam** *see* **Kuczumow, Tadeusz, 2001h:46075**
**Tavallaee, Narguess** *see* **Monadi, Abolfazl, 2001b:46073**

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**Aharonov, Dov** (*with* Elin, Mark; Reich, Simeon; Shoikhet, David) Parametric representations of semi-complete vector fields on the unit balls in $\mathbb{C}^n$ and in Hilbert space. (English and Italian summaries) **2001m:32048**
**Balboni, Ferrante** The preparation theorem on Banach spaces. (English summary) **2001m:58007**
**Bui Dac Tac** *see* **Nguyen Van Hao, 2001f:46058**
**Cabello Sánchez, Félix** (*with* Castillo, Jesús M. F.; García, Ricardo) Polynomials on dual-isomorphic spaces. **2001c:46088**
**Castillo, Jesús M. F.** *see* **Cabello Sánchez, Félix et al., 2001c:46088**
**Chu, Cho-Ho** (*with* Isidro, José María[1]) Manifolds of tripotents in JB*-triples. (English summary) **2001f:58011**
**Dinh Huy Hoang** *see* **Do Duc Thai, 2001b:32038**
**Do Duc Thai** (*with* Dinh Huy Hoang) Continuous linear extension operators on spaces of holomorphic functions on closed subgroups of a complex Lie group. (English summary) **2001b:32038**
**Elin, Mark** (*with* Reich, Simeon; Shoikhet, David) Asymptotic behavior of semigroups of holomorphic mappings. (English summary) **2001i:47100**
— (*with* Reich, Simeon; Shoikhet, David) Holomorphically accretive mappings and spiral-shaped functions of proper contractions. (English summary) **2001j:47062**
— *see also* **Aharonov, Dov et al., 2001m:32048**
**Fukushima, Yukio** Extension of pluriharmonic functions in locally convex spaces. **2001j:32038**
— *see also* **Kajiwara, Joji et al., 2001m:32044**
**Galindo, Pablo** (*with* Maestre, Manuel; Rueda, M. P.) Biduality in spaces of holomorphic functions. (English summary) **2001i:46062**
**García, Domingo** (*with* Maestre, Manuel; Rueda, M. P.) Weighted spaces of holomorphic functions on Banach spaces. (English summary) **2001c:46071**
**García, Ricardo** *see* **Cabello Sánchez, Félix et al., 2001c:46088**
**Gonicka, Joanna** *see* **Wlodarczyk, Kazimierz, 2001e:47088**
**Grecu, Bogdan C.** Geometry of three-homogeneous polynomials on real Hilbert spaces. (English summary) **2001i:46026**
**Harita, Mitsuru** Extension of meromorphic mappings from domains of the locally convex space. (English summary) **2001c:32016**
**Harris, Lawrence A.** Banach algebras where the singular elements are removable singularities. (English summary) **2001d:46072**
**Honda, Tatsuhiro** A growth theorem for biholomorphic mappings on a Banach space. (English summary) **2001e:58005**
**Hu, Chuan Gan** (*with* Ye, Xiu-Fang) The Nevanlinna's first main theorem for holomorphic Hermitian line bundles. **2001f:58012**
**Isidro, José María[1]** *see* **Chu, Cho-Ho, 2001f:58011**
**Jaramillo, Jesús Angel** (*with* Prieto Yerro, Ángeles; Zalduendo, Ignacio) Sequential convergences and Dunford-Pettis properties. (English summary) **2001e:46021**
**Kajiwara, Joji** (*with* Fukushima, Yukio; Li, Lin; Li, Xia Dong) Characterizations of holomorphy of domains through validity of Theorem A, B or Oka's principle. (English summary) **2001m:32044**
— *see also* **Finite or infinite dimensional complex analysis, 2001b:00021**
**Kuczumow, Tadeusz** (*with* Reich, Simeon; Shoikhet, David) The existence and non-existence of common fixed points for commuting families of holomorphic mappings. **2001h:47094**
**Lassalle, Silvia** (*with* Zalduendo, Ignacio) To what extent does the dual Banach space $E'$ determine the polynomials over $E$? (English summary) **2001h:46076**
**Le Mau Hai** (*with* Pham Hien Bang) On the property $(LB^\infty)$ of spaces of germs of holomorphic functions and the properties $(\widetilde{\Omega}, \overline{\Omega})$ of the Hartogs domains in infinite dimension. (English summary) **2001h:46060**
**Lempert, László** Approximation de fonctions holomorphes d'un nombre infini de variables. (English and French summaries) [Approximation of holomorphic functions of infinitely many variables] **2001d:32027**
— Approximation of holomorphic functions of infinitely many variables. II. (English and French summaries) **2001g:32052**
**Li, Lin** *see* **Kajiwara, Joji et al., 2001m:32044**
**Li, Xia Dong** *see* **Kajiwara, Joji et al., 2001m:32044**
**(Li, Zhong[1])** *see* **Finite or infinite dimensional complex analysis, 2001b:00021**
**Llavona, José G.** Polynomial continuity on Banach spaces. **2001h:46077**
**Maestre, Manuel** *see* **García, Domingo et al., 2001c:46071** *and* **Galindo, Pablo et al., 2001i:46062**
**Mauer, Murielle** Domains of R-analytic existence in inductive limits of real separable Banach spaces. (English summary) **2001j:46047**
**Nguyen Van Hao** (*with* Bui Dac Tac) The properties (DN) and $(\mathrm{DN}_\varphi)$ of spaces of germs of holomorphic functions. (English summary) **2001f:46058**
**Pham Hien Bang** First holomorphic cohomology group and linear topological properties. **2001m:46164**
— *see also* **Le Mau Hai, 2001h:46060**
**Prieto Yerro, Ángeles** *see* **Jaramillo, Jesús Angel et al., 2001e:46021**
**Reich, Simeon** *see* **Kuczumow, Tadeusz et al., 2001h:47094; Elin, Mark et al., 2001i:47100; 2001j:47062** *and* **Aharonov, Dov et al., 2001m:32048**
**Rueda, M. P.** *see* **García, Domingo et al., 2001c:46071** *and* **Galindo, Pablo et al., 2001i:46062**
**Shoikhet, David** *see* **Kuczumow, Tadeusz et al., 2001h:47094; Elin, Mark et al., 2001i:47100; 2001j:47062** *and* **Aharonov, Dov et al., 2001m:32048**
**(Shon, Kwang Ho)** *see* **Finite or infinite dimensional complex analysis, 2001b:00021**
**Soraggi, Roberto Luiz** Exponential forms with exponential growth. (English summary) **2001d:32053**
**Stachó, László L.** A counterexample concerning contractive projections of real $JB^*$-triples. (English summary) **2001k:46112**

**Stan, Aurel** Paley-Wiener thoerem for white noise analysis. (English summary) **2001e:60137**
**Wlodarczyk, Kazimierz** (*with* Gonicka, Joanna) Random iterations of holomorphic contractions in locally convex spaces and of weaker contractions in uniform spaces. (English summary) **2001e:47088**
**Ye, Xiu-Fang** *see* **Hu, Chuan Gan, 2001f:58012**
**Zalduendo, Ignacio** *see* **Jaramillo, Jesús Angel et al., 2001e:46021** *and* **Lassalle, Silvia, 2001h:46076**

Items listed otherwise than by author

**Colloquium:**
**Finite or Infinite Dimensional Complex Analysis** ★ Finite or infinite dimensional complex analysis. **2001b:00021**
**Finite or infinite dimensional complex analysis** ★ Finite or infinite dimensional complex analysis. **2001b:00021**
**Fukuoka** ★ Finite or infinite dimensional complex analysis. **2001b:00021**

## 46G25 (Spaces of) multilinear mappings, polynomials [see also 46E50, 46G20, 47H60]

**Ansemil, José M.** (*with* Blasco, Fernando; Ponte, Socorro) On the "three-space problem" for spaces of polynomials. (English summary) **2001a:46044**
**Blasco, Fernando** *see* **Ansemil, José M. et al., 2001a:46044**
**Botelho, Geraldo** Almost summing polynomials. (English summary) **2001d:46069**
**Boyd, Christopher** Duality and reflexivity of spaces of approximable polynomials on locally convex spaces. (English summary) **2001i:46076**
**Cabello Sánchez, Félix** (*with* Castillo, Jesús M. F.; García, Ricardo) Polynomials on dual-isomorphic spaces. **2001c:46088**
**Carando, Daniel** (*with* Dimant, Verónica) Duality in spaces of nuclear and integral polynomials. (English summary) **2001c:46089**
**Castillo, Jesús M. F.** (*with* García, Ricardo; Gonzalo, Raquel) Banach spaces in which all multilinear forms are weakly sequentially continuous. (English summary) **2001a:46045**
— *see also* **Cabello Sánchez, Félix et al., 2001c:46088**
**Defant, Andreas** (*with* Díaz Alcaide, Juan Carlos; García, Domingo; Maestre, Manuel) The Pisier-Schütt theorem for spaces of polynomials. (*see* **2001b:00021**)
**Díaz Alcaide, Juan Carlos** *see* **Defant, Andreas et al., (2001b:00021)**
**Dimant, Verónica** *see* **Carando, Daniel, 2001c:46089**
**García, Domingo** *see* **Defant, Andreas et al., (2001b:00021)**
**García, Ricardo** *see* **Castillo, Jesús M. F. et al., 2001a:46045** *and* **Cabello Sánchez, Félix et al., 2001c:46088**
**González, Manuel** (*with* Gutiérrez del Alamo, Joaquín M.) Orlicz-Pettis polynomials on Banach spaces. (English summary) **2001b:46074**
**Gonzalo, Raquel** *see* **Castillo, Jesús M. F. et al., 2001a:46045**
**Gutiérrez del Alamo, Joaquín M.** *see* **González, Manuel, 2001b:46074**
**Honda, Tatsuhiro** (*with* Miyagi, Mitsuhiro; Nishihara, Masaru; Yoshida, Mamoru) On continuities of the Borel transforms on the duals of spaces of continuous $n$-homogeneous polynomials on locally convex spaces. (English summary) **2001j:46060**
**Lassalle, Silvia** (*with* Zalduendo, Ignacio) To what extent does the dual Banach space $E'$ determine the polynomials over $E$? (English summary) **2001h:46076**
**Llavona, José G.** Polynomial continuity on Banach spaces. **2001h:46077**
**Maestre, Manuel** *see* **Defant, Andreas et al., (2001b:00021)**
**Miyagi, Mitsuhiro** *see* **Honda, Tatsuhiro et al., 2001j:46060**
**Muñoz, Gustavo A.** Complexifications of polynomials and multilinear maps on real Banach spaces. **2001f:46070**
**Nishihara, Masaru** On the tensor product representation of polynomials of weak type. (English summary) **2001e:46084**
— *see also* **Honda, Tatsuhiro et al., 2001j:46060**
**Pestov, Vladimir** Two 1935 questions of Mazur about polynomials in Banach spaces: counter-examples. (English summary) **2001i:46077**
**Ponte, Socorro** *see* **Ansemil, José M. et al., 2001a:46044**
**Salch, Yousef** Norm attaining bilinear forms on $L_1(\mu)$. (English summary) **2001e:46085**
**Valdivia, Manuel** Some properties in spaces of multilinear functionals and spaces of polynomials. (English summary) **2001e:46086**
**Yoshida, Mamoru** *see* **Honda, Tatsuhiro et al., 2001j:46060**
**Zalduendo, Ignacio** *see* **Lassalle, Silvia, 2001h:46076**

Items with secondary classifications in 46G25

**Almasri, Ibrahim** (*with* Li, Jinlu; Tonge, Andrew) Random trilinear forms and the Schur multiplication of tensors. (English summary) **2001c:46031**
**Ansemil, José M.** (*with* Blasco, Fernando; Ponte, Socorro) (BB) properties on Fréchet spaces. (English summary) **2001f:46007**
**Blasco, Fernando** On $X$-Köthe echelon spaces and applications. (English summary) **2001e:46008**
— Quasinormability of vector valued sequence spaces. (English summary) **2001d:46015**
— *see also* **Ansemil, José M. et al., 2001f:46007**
**Braunss, H.-A.** (*with* Junek, H.; Plewnia, E.) Approximation numbers for polynomials. (English summary) **2001g:47112**
**Cabello Sánchez, Félix** (*with* García, Ricardo; Villanueva Díez, Ignacio) On a question of Pełczyński about multilinear operators. (English summary) **2001m:46027**
**Dineen, Seán** ★ Complex analysis on infinite-dimensional spaces. (English summary) **2001a:46043**
**Floret, Klaus** Natural norms on symmetric tensor products of normed spaces. (English summary) **2001g:46038**
**García, Ricardo** *see* **Cabello Sánchez, Félix et al., 2001m:46027**
**González, Manuel** (*with* Gutiérrez del Alamo, Joaquín M.) Polynomials on Schreier's space. (English summary) **2001h:46025**
**Gutiérrez del Alamo, Joaquín M.** *see* **González, Manuel, 2001h:46025**
**Junek, H.** *see* **Braunss, H.-A. et al., 2001g:47112**
**Khlobystov, V. V.** *see* **Makarov, Vladimir L., 2001a:41002**
**Li, Jinlu** *see* **Almasri, Ibrahim et al., 2001c:46031**
**Llavona, José G.** Polynomial continuity. (Russian. English and Russian summaries) **2001j:47073**
**Makarov, Vladimir L.** (*with* Khlobystov, V. V.) ★ Основы теории полиномиального операторного интерполирования. (Russian. English and Ukrainian summaries) [Principles of the theory of polynomial operator interpolation] **2001a:41002**
**Nishihara, Masaru** The extension of holomorphic functions on a nuclear space. **2001d:46068**
**Plewnia, E.** *see* **Braunss, H.-A. et al., 2001g:47112**
**Ponte, Socorro** *see* **Ansemil, José M. et al., 2001f:46007**
**Tonge, Andrew** *see* **Almasri, Ibrahim et al., 2001c:46031**
**Villanueva Díez, Ignacio** *see* **Cabello Sánchez, Félix et al., 2001m:46027**
**Zagorodnyuk, A. V.** On polynomial orthogonality on Banach spaces. (English and Russian summaries) **2001k:46027**

## 46G99 None of the above, but in this section

**Alghamdi, Mariam A.** *see* **Okb El-Bab, A. S., 2001a:46046**
**Losonczi, László** Conditional convexity. (English summary) **2001j:46061**
**Okb El-Bab, A. S.** (*with* Alghamdi, Mariam A.) Exponentially convex functions depending on the norm. (English summary) **2001a:46046**

Items with secondary classifications in 46G99

**Bhatia, Rajendra** (*with* Holbrook, John A.) Fréchet derivatives of the power function. (English summary) **2001m:58019**
**Fabian, Marián J.** (*with* Zizler, Václav) An elementary approach to some questions in higher order smoothness in Banach spaces. **2001k:46019**
**Freedman, Walden** Alternative polynomial and holomorphic Dunford-Pettis properties. (English summary) **2001g:46027**
**Holbrook, John A.** *see* **Bhatia, Rajendra, 2001m:58019**
**Kochubeĭ, A. N.** Analysis over infinite extensions of a local field. (Russian)
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**Răducanu, Dorina** Alpha-spiral mappings of a Banach space into the complex plane. (English summary) (*see* **2001h:30003**)
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# 46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20.}

## 46H05 General theory of topological algebras

**Arens, Richard Friederich** (*with* Goldberg, Moshe; Luxemburg, W. A. J.) Stable norms on complex numbers and quaternions. (English summary) **2001a:46047**
**Aupetit, Bernard** Spectrum-preserving linear mappings between Banach algebras or Jordan-Banach algebras. **2001h:46078**
**Babalola, V. A.** *see* **Bassey, U. N., 2001a:46048**
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**Bassey, U. N.** (*with* Babalola, V. A.) Some results concerning quasinilpotent or semicompact elements of locally convex algebras. (English summary) **2001a:46048**
**Beggs, Edwin J.** Strongly asymptotic morphisms on separable metrisable algebras. (English summary) **2001i:46078**
**Bhattacharya, D. K.** (*with* Ray, Tapan Kumar) Radical and nonunital Banach algebra with central idempotents. **2001h:46080**
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**Buskes, G.** (*with* Van Rooij, Arnoud C. M.) Almost $f$-algebras: structure and the Dedekind completion. (English summary) **2001j:46062**
**Chahboun, M.** *see* **El Kinani, Abdellah et al., 2001d:46071**
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**Daoui, A.** Sur le degré minimum des connexions polynomiales entre les projections dans une algèbre de Banach. (Italian summary) [Minimum degree of polynomial connections between projections in a Banach algebra] **2001e:46089**
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**El Kinani, Abdellah** (*with* Oudadess, Mohamed) $m$-convex properties in locally convex algebras. (English summary) **2001d:46070**

— (*with* Chahboun, M.; Oudadess, Mohamed) Les algèbres $A$-$F$-normées advertiblement complètes. (English summary) [Advertibly complete $A$-$F$-normed algebras] **2001d:46071**
**Faroughi, M. H.** Subsemivarieties of $Q$-algebras. (English summary) **2001g:46105**
**Goldberg, Moshe** *see* **Arens, Richard Friederich et al., 2001a:46047**
**Harris, Lawrence A.** Banach algebras where the singular elements are removable singularities. (English summary) **2001d:46072**
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**Jung, Yong-Soo** Some results on Jordan left derivations in Banach algebras. (English summary) **2001h:46081**
**Khin Aye Aye** *see* **Dierolf, Susanne et al., 2001c:46090**
**Kim, Byung-Do** The image of derivations on certain Banach algebras. (English summary) **2001f:46071**
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**Liao, Jun Jun** (*with* Wu, Cong Xin) On the product theorems of $(\lambda, \mu)$. (Chinese. English and Chinese summaries) **2001a:46049**
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**Manna, Sasadhar** *see* **Bhattacharya, D. K. et al., 2001h:46079**
**Martínez Meléndez, Angel** (*with* Wawrzyńczyk, Antoni) An approach to joint spectra. (English summary) **2001b:46075**
**Micali, Artibano** *see* **da Motta Ferreira, João Carlos**
**Mocanu, Gheorghe** On locally $m$-convex $Q$-algebras. (English summary) **2001j:46064**
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**Oudadess, Mohamed** *see* **El Kinani, Abdellah et al., 2001d:46070** *and* **2001d:46071**
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**Ransford, Thomas J.** (*with* White, Michael C.) Spectral characterization of algebraic elements. (English summary) **2001j:46066**
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**Schmoeger, Christoph** The punctured neighbourhood theorem in Banach algebras. III. (English summary) **2001d:46073**
— Remarks on commuting exponentials in Banach algebras. II. (English summary) **2001b:46077**
**Schröder, Karl-Heinz** *see* **Dierolf, Susanne et al., 2001c:46090**
**Singh, Ajit Iqbal** *see* **Jain, Surender Kumar, 2001g:46106**
**Suantai, Suthep** Multiplicativity factors for $p$-seminorms. (English summary) **2001m:46099a**
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**Tajmouati, Abdelaziz** (*with* Zinedine, Ahmed) Éléments singuliers permanents dans la classe des algèbres bornologiques. (English summary) [Permanently singular elements in the class of bornological algebras] **2001c:46092**
**Van Rooij, Arnoud C. M.** *see* **Buskes, G., 2001j:46062**
**Vaughan-Lee, M. R.** (*with* Wright, J. D. Maitland) Pseudo-linear functionals on Banach algebras. (English summary) **2001h:46085**
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**White, Michael C.** *see* **Ransford, Thomas J., 2001j:46066**
**Wright, J. D. Maitland** *see* **Vaughan-Lee, M. R., 2001h:46085**
**Wu, Cong Xin** *see* **Liao, Jun Jun, 2001a:46049**
**Wu, Jun De** A class of infinite matrix topological algebras. (English summary) **2001j:46067**
**Yood, Bertram** Centralizers for subsets of normed algebras. (English summary) **2001g:46107**
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**Beidar, K. I.** (*with* Brešar, Matej) Applying the density theorem for derivations to range inclusion problems. (English summary) **2001k:47047**
**Benslimane, Mohamed** (*with* Mesmoudi, Laïla; Rodríguez-Palacios, Ángel) A characterization of commutativity for non-associative normed algebras. **2001i:46084**
**Berenguer, M. I.** (*with* Villena Muñoz, Armando R.) On the range of a Lie derivation on a Banach algebra. (English summary) **2001g:46111**
**Brešar, Matej** *see* **Beidar, K. I., 2001k:47047**
**Brodzki, Jacek** (*with* Plymen, Roger) Periodic cyclic homology of certain nuclear algebras. (English and French summaries) **2001k:46116**
**Carrillo Hoyo, Angel M.** *see* **Arizmendi Peimbert, Hugo et al., 2001c:46005**
**Chalendar, Isabelle** (*with* Kellay, Karim; Ransford, Thomas J.) Binomial sums, moments and invariant subspaces. (English summary) **2001b:47013**
**Chang, Ick-Soon** Jordan derivations in noncommutative Banach algebras. (English summary) **2001e:16064**
**Esslamzadeh, G. H.** Representations and positive functionals of involutive $l^1$-Munn algebras. (English and Persian summaries) **2001h:46100**
**Goldstein, Dmitry** (*with* Krupnik, Naum Yakovlevich) Minimal number of idempotent generators for certain algebras. (English summary) **2001d:47111**
**Gourdeau, Frédéric** (*with* White, Michael C.) Vanishing of the third simplicial cohomology group of $l^1(\mathbf{Z}_+)$. (English summary) **2001m:46163**
**Harte, Robin** (*with* Taylor, Ciaran) On vector-valued spectra. (English summary) **2001c:47011**
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**Krupnik, Naum Yakovlevich** *see* **Goldstein, Dmitry, 2001d:47111**
**Liao, Jun Jun** *see* **Wu, Cong Xin, 2001b:46012**
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**Nikol'skiĭ, Nikolai K.** The phenomenon of the invisible spectrum and the problem of efficient inversions. **2001d:46078**
**Omladič, Matjaž** (*with* Radjavi, Heydar; Rosenthal, Peter; Sourour, Ahmed R.) Inequalities for products of spectral radii. (English summary) **2001i:47003**
**Palacios F., Lourdes** *see* **Arizmendi Peimbert, Hugo et al., 2001c:46005**
**Plymen, Roger** *see* **Brodzki, Jacek, 2001k:46116**
**Radjavi, Heydar** *see* **Omladič, Matjaž et al., 2001i:47003**
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**White, Michael C.** *see* **Gourdeau, Frédéric, 2001m:46163**
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## 46H10 Ideals and subalgebras

**Choukri, R.** M-convexité dans la corps $\mathbf{C}(X)$. [M-convexity in the field $\mathbf{C}(X)$] **2001c:46093**
**Dixon, P. G.** Non-closed sums of closed ideals in Banach algebras. (English summary) **2001g:46108**
**Somerset, D. W. B.** Minimal primal ideals in rings and Banach algebras. (English summary) **2001d:46074**

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**Kaniuth, Eberhard** Ideals with bounded approximate units in $L^1$-algebras of locally compact groups. (English summary) **2001b:43006**
**Martínez Meléndez, Angel** (*with* Wawrzyńczyk, Antoni) An approach to joint spectra. (English summary) **2001b:46075**
**Muhly, Paul S.** (*with* Solel, Baruch) On quotients of tensor algebras and their $C^*$-envelopes. (English summary) **2001f:46087**
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**Scărlătescu-Murea, Silvia** Some topological properties of the spectrum of a non-Archimedean $Q$-algebra. (English summary) **2001j:46119**
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**Solel, Baruch** *see* **Muhly, Paul S., 2001f:46087** *and* **2001g:46128**
**Suantai, Suthep** Multiplicativity factors for $p$-seminorms. (English summary) **2001m:46099a**
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## 46H15 Representations of topological algebras

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**Popovych, Stanislav V.** Conditions for embedding a $*$-algebra into a $C^*$-algebra. (English summary) **2001f:46082**
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**Samoĭlenko, Yuriĭ** *see* **Rabanovich, V. I., 2001d:47113** *and* **2001f:16043**

## 46H20 Structure, classification of topological algebras

**Arizmendi Peimbert, Hugo** (*with* Valov, Vesko) Some characterizations of $Q$-algebras. (English summary) **2001c:46094**
**Buskes, G.** (*with* Van Rooij, Arnoud C. M.) Almost $f$-algebras: commutativity and the Cauchy-Schwarz inequality. **2001j:46068**
**Carboni, Graciela** (*with* Larotonda, Angel) An example of a Fréchet algebra which is a principal ideal domain. (English summary) **2001c:46095**
**Cheikh, O. H.** Sur la topologie $m$-convexe d'une algèbre localement $A$-convexe. (English summary) [The $m$-convex topology of a locally $A$-convex algebra] **2001h:46086**
**Finck, T.** (*with* Roch, Steffen; Silbermann, Bernd) Banach algebras generated by two idempotents and one flip. (English summary) **2001f:46072**
**Jung, Yong-Soo** Results on the range of derivations. (English summary) **2001g:46109**
**Larotonda, Angel** *see* **Carboni, Graciela, 2001c:46095**
**Manhas, J. S.** *see* **Singh, Raj Kishor, 2001i:46080**
**Modarres, S. M. S.** The topological center and amenability of a Banach algebra with a predual. (English summary) **2001b:46078**
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**Silbermann, Bernd** *see* **Finck, T. et al., 2001f:46072**
**Singh, Raj Kishor** (*with* Manhas, J. S.) Singular operators on locally convex spaces. (English summary) **2001i:46080**
**Valov, Vesko** *see* **Arizmendi Peimbert, Hugo, 2001c:46094**
**Van Rooij, Arnoud C. M.** *see* **Buskes, G., 2001j:46068**
**Zhang, Yong[1]** Maximal ideals and the structure of contractible and amenable Banach algebras. (English summary) **2001h:46087**

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**Batikyan, B. T.** Point derivations in algebraic extension of Banach algebra. (English summary) **2001g:46118**
**Medgalchi, A. R.** (*with* Modarres, S. M. S.) Amenability of the second dual of hypergroup algebras. (English summary) **2001g:43001**
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**Read, C. J.** Commutative, radical amenable Banach algebras. (English summary) **2001f:46078**
**Żelazko, Wiesław** A characterization of commutative Fréchet algebras with all ideals closed. (English summary) **2001f:46077**

## 46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)

**Afanas, D. N.** *see* **Choban, M. M., 2001d:46075**
**Aristov, O. Yu.** On the definition of a flat operator module. (English summary) **2001e:46090**
**Chen, Xiao Man** (*with* Guo, Kun Yu) Cohomology and extensions of hypo-Šilov modules over unit modulus algebras. (English summary) **2001f:46073**
**Choban, M. M.** (*with* Afanas, D. N.) Topologically complementable spaces and Hahn-Banach theorem. (English summary) **2001d:46075**
**Del-Vecchio, Renata R.** (*with* Pombo, Dinamérico P., Jr.; Vinagre, Cybele T. M.) On the Banach-Steinhaus theorem and the closed graph theorem in the context of topological modules. (English summary) **2001j:46069**
**Gök, Ömer** On dual Bade theorem in locally convex $C(K)$-modules. **2001c:46097**
— Dual reflexivity theorem in $C^*$-modules. **2001c:46096**
**Guo, Kun Yu** *see* **Chen, Xiao Man, 2001f:46073**
**Loy, R. J.** (*with* Read, C. J.; Runde, Volker; Willis, G. A.) Amenable and weakly amenable Banach algebras with compact multiplication. (English summary) **2001h:46088**
**Miana, Pedro J.** Spectral theory for representations. (English summary) **2001h:46089**
**Pombo, Dinamérico P., Jr.** *see* **Del-Vecchio, Renata R. et al., 2001j:46069**
**Pugach, L. I.** Projective ideals of Banach algebras, and approximate units. (Russian. English and Russian summaries)
**Read, C. J.** *see* **Loy, R. J. et al., 2001h:46088**
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**Tabaldyev, S. B.** The Sobolev algebra and indecomposable spatially projective operator algebras. **2001g:46110**
**Vinagre, Cybele T. M.** *see* **Del-Vecchio, Renata R. et al., 2001j:46069**
**Willis, G. A.** *see* **Loy, R. J. et al., 2001h:46088**

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**Aamri, Mohamed** (*with* El Miloudi, Marhrani) Modules à réseau absorbant. (English and French summaries) [Modules with absorbing nets] **2001i:46007**
**Andruchow, Esteban** (*with* Corach, Gustavo; Stojanoff, Demetrio) Geometry of the sphere of a Hilbert module. (English summary) **2001a:46055**
**Arveson, William** The curvature of a Hilbert module over $\mathbf{C}[z_1, \cdots, z_d]$. (English summary) **2001k:47010**
**Blecher, David P.** (*with* Le Merdy, Christian) On function and operator modules. (English summary) **2001k:47100**
**Clark, Douglas N.** (*with* Ferguson, Sarah H.) Submodules of $L^2(\mathbf{T}^N)$. (English summary) **2001f:47006**
**Corach, Gustavo** *see* **Andruchow, Esteban et al., 2001a:46055**
**El Miloudi, Marhrani** *see* **Aamri, Mohamed, 2001i:46007**
**Ferguson, Sarah H.** *see* **Clark, Douglas N., 2001f:47006**
**an Huef, Astrid** (*with* Raeburn, Iain; Williams, Dana P.) An equivariant Brauer semigroup and the symmetric imprimitivity theorem. (English summary) **2001b:46107**
**Kasimov, V. A.** Operator algebras of Hilbert modules over $C^*$-algebras. (Russian. Russian summary) (*see* **2001f:00019**)
**Khelemskiĭ, A. Ya.** Homology for the algebras of analysis. **2001g:46157**
**Le Merdy, Christian** *see* **Blecher, David P., 2001k:47100**
**Lipkina, Z. S.** Locally convex modules. (Russian. English and Russian summaries) **2001i:46117**
**Magajna, Bojan** $C^*$-convex sets and completely bounded bimodule homomorphisms. (English summary) **2001g:46134**
**Manuilov, V. M.** Representability of functionals and adjointability of operators on Hilbert $C^*$-modules. (English and Russian summaries) (*see* **2001f:00019**)
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**Moslehian, M. S.** (*with* Niknam, A.) Local cohomology for commutative Banach algebras. (English summary) **2001f:46080**
**Niknam, A.** *see* **Moslehian, M. S., 2001f:46080**
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**Pirkovskiĭ, A. Yu.** On conditions that ensure the freedom of topological modules over algebras of holomorphic functions. (Russian. English and Russian summaries) **2001k:46082**
— Injective topological modules, additivity formulas for homological dimensions and related topics. (English summary) **2001j:46112**
**Polyakov, M. E.** Homological dimensions of $C(\Omega)$-modules. (Russian. Russian summary) **2001g:46158**
**Raeburn, Iain** *see* **an Huef, Astrid et al., 2001b:46107**
**Read, C. J.** Commutative, radical amenable Banach algebras. (English summary) **2001f:46078**
**Selivanov, Yu. V.** Coretraction problems and homological properties of Banach algebras. (English summary) **2001i:46112**
**Stojanoff, Demetrio** *see* **Andruchow, Esteban et al., 2001a:46055**
**Suciu, Elena Alina** Elementary replacements and $\mathrm{Ext}^2$ groups for Hilbert modules over a function algebra. (English summary) **2001i:46113**
**Williams, Dana P.** *see* **an Huef, Astrid et al., 2001b:46107**
**Zhang, Yong[1]** Maximal ideals and the structure of contractible and amenable Banach algebras. (English summary) **2001h:46087**

## 46H30 Functional calculus in topological algebras [see also 47A60]

**Akkar, Mohamed** (*with* Arroub, H.) Calcul fonctionnel holomorphe en dimension infinie dans une algèbre de Banach quotient. (French summary) [Infinite-dimensional holomorphic functional calculus in a quotient Banach algebra] **2001e:46091**
**Arroub, H.** *see* **Akkar, Mohamed, 2001e:46091**
**Atzmon, A.** (*with* Eremenko, Alexandre; Sodin, Mikhail) Spectral inclusion and analytic continuation. **2001k:46076**
**Barnes, Bruce A.** Functional algebras, ideal properties, and range inclusion. (English summary) **2001f:46074**
**Chidami, M.** (*with* El Harti, R.) Calcul fonctionnel holomorphe en dimension infinie dans les lmca. (English summary) [Infinite-dimensional holomorphic functional calculus in lmca] **2001b:46079**
**El Harti, R.** *see* **Chidami, M., 2001b:46079**
**Eremenko, Alexandre** *see* **Atzmon, A. et al., 2001k:46076**
**Hemdaoui, M.** Extension of the Weierstrass factorization theorem. (French summary) **2001m:46101**
**Karaev, M. T.** *see* **Mustafaev, G. S., 2001i:46081**
**Männle, D.** (*with* Schmoeger, Christoph) Generalized Fredholm theory in semisimple algebras. (English and Italian summaries) **2001h:46090**
**Mustafaev, G. S.** (*with* Karaev, M. T.) Expansion of the element sin $a$ in exponentials for Hermitian elements $a$. (Russian. English and Russian summaries) **2001i:46081**
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**El Kinani, Abdellah** Banach algebras with involution and spectral sets. (English summary) **2001d:46082**
**Jiang, Chun Lan** (*with* Li, Jue Xian) The irreducible decomposition of Cowen-Douglas operators and operator weighted shifts. (English summary) **2001m:47059**
**Kisil, Vladimir V.** Two approaches to non-commutative geometry. (English summary) **2001a:01002**
**Koliha, J. J.** Elements of $C^*$-algebras commuting with their Moore-Penrose inverse. (English summary) **2001b:46087**
**Li, Jue Xian** *see* **Jiang, Chun Lan, 2001m:47059**
**Müller, Vladimir** Axiomatic theory of spectrum. III. Semiregularities. (English summary) **2001m:47009**
**Nikol'skiĭ, Nikolai K.** In search of the invisible spectrum. **2001a:46053**
**Palacios F., Lourdes** *see* **Arizmendi Peimbert, Hugo, 2001b:46080**

## 46H35 Topological algebras of operators [See mainly 47Lxx]

Items with secondary classifications in 46H35

**Bagarello, Fabio** (*with* Trapani, Camillo) Morphisms of certain Banach $C^*$-modules. (English summary) **2001m:46130**
**Barnes, Bruce A.** Symmetric Banach $*$-algebras: invariance of spectrum. (English summary) **2001h:46098**
**Qu, Wen Bo** The operator topological algebras $\Sigma(X, Y)$. (Chinese. English and Chinese summaries) **2001k:47099**
**Trapani, Camillo** *see* **Bagarello, Fabio, 2001m:46130**

## 46H40 Automatic continuity

**Allan, Graham R.** Stable inverse-limit sequences and automatic continuity. (English summary) **2001i:46082**
**Aupetit, Bernard** (*with* Mathieu, Martin) The continuity of Lie homomorphisms. (English summary) **2001a:46050**
**Jarosz, Krzysztof** Uniqueness of translation invariant norms. (English summary) **2001e:46092**
**Lee, Young Whan** The stability of derivations on Banach algebras. (English summary) **2001j:46070**
**Mathieu, Martin** *see* **Aupetit, Bernard, 2001a:46050**
**Runde, Volker** Automatic continuity and second order cohomology. (English summary) **2001h:46091**

Items with secondary classifications in 46H40

**Donsig, Allan P.** (*with* Hudson, Timothy D.; Katsoulis, E. G.) Algebraic isomorphisms of limit algebras. (English summary) **2001k:47103**
**Garimella, Ramesh V.** Accessible prime ideals in commutative Banach algebras. (English summary) **2001b:46084**
**Hudson, Timothy D.** *see* **Donsig, Allan P. et al., 2001k:47103**
**Katsoulis, E. G.** *see* **Donsig, Allan P. et al., 2001k:47103**
**Kim, Byung-Do** The image of derivations on certain Banach algebras. (English summary) **2001f:46071**

**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Neumann, Michael M.** *see* **Laursen, Kjeld B., 2001k:47002**
**Velasco, María Victoria** Automatic continuity of operators on non-associative vector valued algebras. (English summary) **2001a:46052**
**Villena Muñoz, Armando R.** Lie derivations on Banach algebras. (English summary) **2001e:47063**

## 46H70 Nonassociative topological algebras [see also 46K70, 46L70]

**Abdullaev, R. Z.** (*with* Khikmetov, B. A.) Arens algebras on JBW-algebras, and their dual spaces. (Russian. English and Uzbek summaries) **2001i:46083**
**Benslimane, Mohamed** (*with* Boudi, N.) Noetherian Jordan Banach algebras are finite-dimensional. (English summary) **2001c:46098**
— (*with* Mesmoudi, Laïla) Characterization of commutative normed algebras. (English summary) **2001d:46076**
— (*with* Mesmoudi, Laïla; Rodríguez-Palacios, Ángel) A characterization of commutativity for non-associative normed algebras. **2001i:46084**
**Berenguer, M. I.** (*with* Villena Muñoz, Armando R.) On the range of a Lie derivation on a Banach algebra. (English summary) **2001g:46111**
**Boudi, N.** (*with* Marhnine, H.; Zarhouti, C.; Fernández López, Antonio[1]; García Rus, Eulalia) Noetherian Banach Jordan pairs. **2001j:46071**
— *see also* **Benslimane, Mohamed, 2001c:46098**
**Cabrera García, Miguel** (*with* Moreno Galindo, Antonio; Rodríguez-Palacios, Ángel) Normed versions of the Zel'manov prime theorem: positive results and limits. (English summary) **2001a:46051**
**Fernández López, Antonio[1]** *see* **Boudi, N. et al., 2001j:46071**
**García Rus, Eulalia** *see* **Boudi, N. et al., 2001j:46071**
**Hessenberger, Gerald** An improved characterization of inessential elements in Banach Jordan systems and the generalized Ruston characterization. (English summary) **2001e:46093**
**Khikmetov, B. A.** *see* **Abdullaev, R. Z., 2001i:46083**
**Laayouni, Mustapha** Unicité de la topologie de Jordan-Fréchet. (English summary) [Uniqueness of the Jordan-Fréchet topology] **2001m:46102**
**Loos, Ottmar** Nuclear elements in Banach Jordan pairs. (English summary) **2001g:46112**
**Marhnine, H.** *see* **Boudi, N. et al., 2001j:46071**
**Mesmoudi, Laïla** *see* **Benslimane, Mohamed et al., 2001d:46076** *and* **2001i:46084**
**Moreno Galindo, Antonio** *see* **Cabrera García, Miguel et al., 2001a:46051**
**Neal, Matthew** Inner ideals and facial structure of the quasi-state space of a JB-algebra. (English summary) **2001c:46099**
**Rodríguez-Palacios, Ángel** *see* **Cabrera García, Miguel et al., 2001a:46051** *and* **Benslimane, Mohamed et al., 2001i:46084**
**Velasco, María Victoria** Automatic continuity of operators on non-associative vector valued algebras. (English summary) **2001a:46052**
**Villena Muñoz, Armando R.** *see* **Berenguer, M. I., 2001g:46111**
**Zarhouti, C.** *see* **Boudi, N. et al., 2001j:46071**

Items with secondary classifications in 46H70

**Aupetit, Bernard** (*with* Mathieu, Martin) The continuity of Lie homomorphisms. (English summary) **2001a:46050**
**Dosiev, A. A.** Cartan type criterion for solvability of subalgebras of associative Banach algebra. (English and Azerbaijani summaries)
**Jung, Yong-Soo** Results on the range of derivations. (English summary) **2001g:46109**
**Mathieu, Martin** *see* **Aupetit, Bernard, 2001a:46050**

## 46H99 None of the above, but in this section

**Arizmendi Peimbert, Hugo** (*with* Palacios F., Lourdes) On spectral radius and power series in $m$-convex algebras. (English summary) **2001b:46080**
**Bhattacharya, D. K.** (*with* Roy, Tapan Kumar[2]) Regular and singular elements of a complete metric $l$-para-algebra and a metric $l$-para-semialgebra. (English summary) **2001e:46094**
**Dai, Zheng Gui** Regularity for homogeneous Banach algebras and their multipliers. (Chinese. English and Chinese summaries) **2001e:46095**
**Palacios F., Lourdes** *see* **Arizmendi Peimbert, Hugo, 2001b:46080**
**Roy, Tapan Kumar[2]** *see* **Bhattacharya, D. K., 2001e:46094**

Items with secondary classifications in 46H99

**Akbarov, S. S.** Stereotype group algebras. (Russian) **2001d:18007**
— Absolute homology theory of stereotypical algebras. (Russian) **2001e:46124**
**Bridges, Douglas S.** Constructive methods in Banach algebra theory. (English summary) **2001g:46162**
**Esslamzadeh, G. H.** Duals and topological center of a class of matrix algebras with applications. (English summary) **2001b:43005**
**García, Domingo** (*with* Lourenço, M. Lilian; Maestre, Manuel; Moraes, Luiza Amália) The spectrum of analytic mappings of bounded type. (English summary) **2001f:46069**
**Gök, Ömer** The dual Bade theorem in locally convex spaces and reflexivity of a closed unital subalgebra. (English summary) **2001e:46003**
**Kim, Byung-Do** On the derivations of semiprime rings and noncommutative Banach algebras. (English summary) **2001c:16064**
**Lashkarizadeh Bami, M.** The topological centers of $LUC(S)^*$ and $M_a(S)^{**}$ of certain foundation semigroups. (English summary) **2001i:43007**
**Lourenço, M. Lilian** *see* **García, Domingo et al., 2001f:46069**
**Maestre, Manuel** *see* **García, Domingo et al., 2001f:46069**
**Medgalchi, A. R.** Weighted hypergroup algebras and their second duals. (English and Farsi summaries) **2001j:43009**
**Moraes, Luiza Amália** *see* **García, Domingo et al., 2001f:46069**
**Nasr-Isfahani, R.** Factorization in some ideals of Lau algebras with applications to semigroup algebras. (English summary) **2001i:43002**
**Oudadess, Mohamed** Another version of Vidav-Palmer's theorem on $C^*$-algebra structure. (English summary) **2001c:46110**
**Pyartli, S. A.** Locally convex group algebras over compact groups. (Russian. English and Russian summaries)
**Su, Wei Gang** Some properties of analytic semigroups in Banach algebras. (Chinese. English and Chinese summaries) **2001m:47095**
**Tian, Guohui** A periodicity theorem in $K$-theory for finite covariant systems. (English summary) **2001c:46128**

# 46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

## 46J05 General theory of commutative topological algebras

**Abdelali, Z.** (*with* Chidami, M.) Théorèmes de structure sur certaines algèbres m-convexes commutatives. [Structure theorems for certain commutative m-convex algebras] **2001g:46113**
**Akkar, Mohamed** (*with* El Harti, R.) Calcul fonctionnel holomorphe global: unicité et invariance par les homomorphismes d'algèbres de Banach. (English summary) [Global holomorphic functional calculus: uniqueness and invariance under Banach algebra homomorphisms] **2001b:46081**
**Arhippainen, Jorma** On functional representation of commutative locally $A$-convex algebras. (English summary) **2001k:46077**
**Chidami, M.** *see* **Abdelali, Z., 2001g:46113**
**Corduneanu, Silvia-Otilia** A density property of the $C^*$-algebra PAP($\mathbb{R}$) and its applications. **2001k:46078**
**El Harti, R.** *see* **Akkar, Mohamed, 2001b:46081**
**Hatori, Osamu** Ring homomorphisms on commutative Banach algebras. I. (Japanese) (*see* **2001e:46001**)
**Miura, Tsuyoshi** Ring homomorphisms on commutative Banach algebras. II. (Japanese) (*see* **2001e:46001**)
**Mustafayev, H. S.** (*with* Ülger, Ali) A class of Banach algebras whose duals have the Schur property. (English summary) **2001m:46103**
**Nakazi, Takahiko** Two-dimensional $Q$-algebras. (English summary) **2001d:46077**
**Nikol'skiĭ, Nikolai K.** The phenomenon of the invisible spectrum and the problem of efficient inversions. **2001d:46078**
**Ülger, Ali** Central elements of $A^{**}$ for certain Banach algebras $A$ without bounded approximate identities. (English summary) **2001b:46082**
— *see also* **Mustafayev, H. S., 2001m:46103**
**Villena Muñoz, Armando R.** Elements in a commutative Banach algebra determining the norm topology. (English summary) **2001g:46114**

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**Akkar, Mohamed** (*with* Arroub, H.) Calcul fonctionnel holomorphe en dimension infinie dans une algèbre de Banach quotient. (French summary) [Infinite-dimensional holomorphic functional calculus in a quotient Banach algebra] **2001e:46091**
**Arroub, H.** *see* **Akkar, Mohamed, 2001e:46091**
**Choukri, R.** M-convexité dans la corps $\mathbf{C}(X)$. [M-convexity in the field $\mathbf{C}(X)$] **2001c:46093**
**Deng, Sheng Hua** The dual space of the $C^*$-algebra. (Chinese. English and Chinese summaries) **2001m:46112**
**Farooghi, M. H.** Subsemivarieties of $Q$-algebras. (English summary) **2001g:46105**
**Jain, Surender Kumar** (*with* Singh, Ajit Iqbal) Quotient rings of algebras of functions and operators. (English summary) **2001g:46106**
**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Muir, Jerry R., Jr.** Holomorphic idempotents and retracts in the unit ball of a commutative $C^*$-algebra with identity. (English summary) **2001e:46082**
**Neumann, Michael M.** *see* **Laursen, Kjeld B., 2001k:47002**
**Rassias, Themistocles M.** The problem of S. M. Ulam for approximately multiplicative mappings. (English summary) **2001h:39033**
**Singh, Ajit Iqbal** *see* **Jain, Surender Kumar, 2001g:46106**
**Wang, Zong Yao** (*with* Xue, Yifeng) On the unique finite (SI) decomposition of the Jordan operator $\bigoplus_{i=1}^{n} S(\theta)$ for certain inner function $\theta$. (English summary) **2001d:47017**
**Xue, Yifeng** *see* **Wang, Zong Yao, 2001d:47017**

## 46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

**Ali, Abdullah K. S.** An example about the normality of $D(K, M)$. **2001k:46079**
**Alimohammadi, Davood** Non-weakly amenable subalgebras of $A(K)$ and $D^1(K)$. (English summary) **2001f:46075**
**Bonsall, F. F.** Type 2 semi-algebras of continuous functions. **2001f:46076**
**Čerych, Jan** Pervasive algebras on planar compacts. (English summary) **2001c:46100**
**Dadarlat, Marius** (*with* McClure, James) When are two commutative $C^*$-algebras stably homotopy equivalent? **2001k:46080**
**Feinstein, Joel F.** (*with* Somerset, D. W. B.) Non-regularity for Banach function algebras. (English summary) **2001g:46115**
**Heinis, Alex** (*with* Wiegerinck, Jan) Extreme and exposed representing measures of the disk algebra. (English summary) **2001g:46116**
**Honary, T. G.** (*with* Mahyar, H.) Approximation in Lipschitz algebras of infinitely differentiable functions. (English summary) **2001b:46083**
**Khan, Liaqat Ali[1]** A note on the Stone-Weierstrass theorem. (English summary) **2001d:46079**
**Lamb, David** Beurling and Lipschitz algebras. (English summary) **2001d:46080**
**Mahyar, H.** Boundaries and peak points of Lipschitz algebras. (English summary) **2001e:46096**
— *see also* **Honary, T. G., 2001b:46083**

**McClure, James** *see* **Dadarlat, Marius, 2001k:46080**
**Netuka, Ivan** (*with* O'Farrell, A. G.; Sanabria-García, M. A.) Pervasive algebras of analytic functions. (English summary) **2001m:46104**
**O'Farrell, A. G.** *see* **Netuka, Ivan et al., 2001m:46104**
**Pérez-Acosta, Francisco** Certain Banach algebras in connection with Besov spaces. **2001c:46101**
**Pulgarín, Antonio A.** A characterization of $\mathcal{C}_k(X)$ as a Fréchet $f$-algebra. (English summary) **2001h:46092**
**Sanabria-García, M. A.** *see* **Netuka, Ivan et al., 2001m:46104**
**Seddighi, K.** (*with* Taghavi, Y.) Mappings on spaces of continuous functions. (English summary) **2001j:46072**
**Somerset, D. W. B.** *see* **Feinstein, Joel F., 2001g:46115**
**Taghavi, Y.** *see* **Seddighi, K., 2001j:46072**
**Wiegerinck, Jan** *see* **Heinis, Alex, 2001g:46116**
**Xiong, Hongyun** (*with* Zhang, Xinjun) A characterization of realcompact Stonian spaces $X$ and extended Riesz homomorphisms on $C^\infty(X)$. (English summary) **2001c:46102**
**Zhang, Xinjun** *see* **Xiong, Hongyun, 2001c:46102**

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**Araujo, Jesús** (*with* Font, Juan J.) Linear isometries on subalgebras of uniformly continuous functions. (English summary) **2001c:46051**
**Azarpanah, F.** (*with* Soundararajan, T.) On functions vanishing at infinity to be an ideal in $C(X)$. (English summary)
**Blasco, José L.** On the existence of subalgebras of $C(X)$ which are not isomorphic to $C(Y)$ for any space $Y$. (English summary) **2001h:54029**
**Blecher, David P.** (*with* Le Merdy, Christian) On function and operator modules. (English summary) **2001k:47100**
**Chandra, Harish** *see* **Lal, Nand, 2001c:47031**
**Chen, Xiao Man** (*with* Guo, Kun Yu) Cohomology and extensions of hypo-Šilov modules over unit modulus algebras. (English summary) **2001f:46073**
**De Paepe, P. J.** Eva Kallin's lemma on polynomial convexity. (English summary) **2001j:32009**
**Dixon, P. G.** Non-closed sums of closed ideals in Banach algebras. (English summary) **2001g:46108**
**Douglas, Ronald G.** (*with* Misra, Gadadhar; Varughese, Cherian) On quotient modules—the case of arbitrary multiplicity. (English summary) **2001f:47012**
**Font, Juan J.** (*with* Sanchis, Manuel) Metrizable extensions of dynamical systems from function algebras. (English summary) **2001g:37007**
— *see also* **Araujo, Jesús, 2001c:46051**
**Freedman, Walden** (*with* Ülger, Ali) The Phillips properties. (English summary) **2001e:46020**
**Guo, Kun Yu** *see* **Chen, Xiao Man, 2001f:46073**
**Harlouchet, Iban** Idéaux fermés de certaines algèbres de Beurling quasianalytiques sur le cercle unité. (English and French summaries) [Closed ideals of certain quasianalytic Beurling algebras on the unit circle] **2001h:46097**
**Honary, T. G.** (*with* Mahyar, H.) Approximation in Lipschitz algebras. (English summary) **2001j:46074**
**Ibadov, N. V.** The space $H^\infty(D)$ for a bounded domain. (Russian. English and Russian summaries) **2001g:46045**
**Kulkarni, S. H.** (*with* Limaye, Balmohan V.) Boundaries and Choquet sets for real subspaces of $C(X)$. (English summary) **2001c:46044**
**Lal, Nand** (*with* Chandra, Harish) Compact operators of the form $uC_\varphi$ on $A(T^2)$. (English summary) **2001c:47031**
**Le Merdy, Christian** *see* **Blecher, David P., 2001k:47100**
**Limaye, Balmohan V.** *see* **Kulkarni, S. H., 2001c:46044**
**Mahyar, H.** *see* **Honary, T. G., 2001j:46074**
**Misra, Gadadhar** *see* **Douglas, Ronald G. et al., 2001f:47012**
**Molnár, Lajos** Reflexivity of the automorphism and isometry groups of $C^*$-algebras in BDF theory. (English summary) **2001k:47049**
**Nakazi, Takahiko** Two-dimensional $Q$-algebras. (English summary) **2001d:46077**
**Pedersen, Thomas Vils** Homogeneous Banach spaces on the unit circle. (English summary) **2001g:46050**
**Sanchis, Manuel** *see* **Font, Juan J., 2001g:37007**
**Soundararajan, T.** *see* **Azarpanah, F.**
**Suciu, Elena Alina** Nagy-Foiaş diagram for Hilbert modules over function algebras. (English summary) **2001g:47015**
**Ülger, Ali** *see* **Freedman, Walden, 2001e:46020**
**Varughese, Cherian** *see* **Douglas, Ronald G. et al., 2001f:47012**

## 46J15 Banach algebras of differentiable or analytic functions, $H^p$-spaces [see also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]

**Amar, Éric** (*with* Menini, Chantal) Universal divisors in Hardy spaces. (English summary) **2001m:46105**
**Dyakonov, Konstantin M.** Canonical factorization in subalgebras of $H^\infty$ associated with Douglas algebras. (English summary) **2001k:46081**
**Ebadian, Ali** Prime ideals in Lipschitz algebras of finite differentiable functions. (English summary) **2001g:46117**
**Feinstein, Joel F.** (*with* Kamowitz, Herbert) Compact endomorphisms of $H^\infty(D)$. (English summary) **2001h:46093**
— (*with* Kamowitz, Herbert) Endomorphisms of Banach algebras of infinitely differentiable functions on compact plane sets. (English summary) **2001j:46073**
**Gorkin, Pamela** (*with* Mortini, Raymond) Synthesis sets for $H^\infty + C$. (English summary) **2001h:46094**
**Honary, T. G.** (*with* Mahyar, H.) Approximation in Lipschitz algebras. (English summary) **2001j:46074**
**Ishii, Takashi** *see* **Izuchi, Keiji, (2001e:46001)**
**Izuchi, Keiji** Spreading Blaschke products and homeomorphic parts. (English summary) **2001c:46103**
— Douglas algebras which admit codimension 1 linear isometries. (Japanese) (*see* **2001e:46001**)
— (*with* Ishii, Takashi) Prime ideal of $H^\infty$. (Japanese) (*see* **2001e:46001**)
**Jaffrey, Marc J.** (*with* Lance, Timothy L.; Stessin, Michael I.) Submodules of the Hardy space over polynomial algebras. (English summary) **2001e:46097**
**Kamowitz, Herbert** *see* **Feinstein, Joel F., 2001h:46093** *and* **2001j:46073**
**Lance, Timothy L.** *see* **Jaffrey, Marc J. et al., 2001e:46097**
**Mahyar, H.** *see* **Honary, T. G., 2001j:46074**
**Menini, Chantal** *see* **Amar, Éric, 2001m:46105**
**Mortini, Raymond** *see* **Gorkin, Pamela, 2001h:46094**
**Niwa, Norio** On singular inner functions of $L^1$-type. (Japanese) (*see* **2001e:46001**)
**Pirkovskiĭ, A. Yu.** On conditions that ensure the freedom of topological modules over algebras of holomorphic functions. (Russian. English and Russian summaries) **2001k:46082**
**Samokhin, M. V.** On the Cauchy integral formula in domains of arbitrary connectivity. (Russian. Russian summary) **2001h:46095**
**Stankov, D. K.** (*with* Tzonev, Tz. G.) Interpolating sequences in nontrivial parts of $M(H^\infty)$. **2001h:46096**
— *see also* **Tzonev, Tz. G., 2001c:46104**
**Stessin, Michael I.** *see* **Jaffrey, Marc J. et al., 2001e:46097**
**Tzonev, Tz. G.** (*with* Stankov, D. K.) Sufficient conditions for thinness of sequences in $M(H^\infty)$. **2001c:46104**
— *see also* **Stankov, D. K., 2001h:46096**
**Xiao, Jie[1]** The $Q_p$ corona theorem. (English summary) **2001j:46075**

Items with secondary classifications in 46J15

**Agler, Jim** (*with* McCarthy, John E.) The three point Pick problem on the bidisk. (English summary) **2001j:32007**
**Alaimia, M. R.** Weak crossed products and a generalisation of a result of Sarason. (English summary) **2001i:46086**
**Ali, Abdullah K. S.** An example about the normality of $D(K, M)$. **2001k:46079**
**Borodin, P. A.** Chebyshev subspaces in the Hardy space $H^1$. (Russian. English and Russian summaries) **2001d:41026**
**Boussaf, Kamal** Images of circular filters. (English summary) **2001g:46160**
**Contreras, Manuel D.** (*with* Díaz-Madrigal, Santiago) Uniform approximation properties for spaces of analytic functions. (English summary) **2001b:46042**
**Decreux, Eric** Closed ideals of a quasianalytic Fréchet algebra. (English summary) **2001m:46106**
**Díaz-Madrigal, Santiago** *see* **Contreras, Manuel D., 2001b:46042**
**Farkas, Eva C.** Hopf algebras of smooth functions on compact Lie groups. (English summary) **2001j:16057**
**Fedorov, Sergei** On a projection from one co-invariant subspace onto another in character-automorphic Hardy space on a multiply connected domain. (English summary) **2001g:46054**
**Gourdeau, Frédéric** (*with* White, Michael C.) Vanishing of the third simplicial cohomology group of $l^1(\mathbb{Z}_+)$. (English summary) **2001m:46163**
**Hedenmalm, Håkan** (*with* Korenblum, Boris; Zhu, Kehe) ★ Theory of Bergman spaces. (English summary) **2001c:46043**
**Hirasawa, Go** (*with* Izuchi, Keiji; Kasuga, Kazuhiro) Korovkin type approximation theorems on the disk algebra. (English summary) **2001a:41032**
**Honary, T. G.** (*with* Mahyar, H.) Approximation in Lipschitz algebras of infinitely differentiable functions. (English summary) **2001b:46083**
**Izuchi, Keiji** Singular inner functions of $L^1$-type. II. (English summary) **2001m:30041**
— *see also* **Hirasawa, Go et al., 2001a:41032**
**Kasuga, Kazuhiro** *see* **Hirasawa, Go et al., 2001a:41032**
**Korenblum, Boris** *see* **Hedenmalm, Håkan et al., 2001c:46043**
**Labudović, Novo** *see* **Meštrović, Romeo et al., 2001h:46040**
**Labuschagne, L. E.** Linear mappings that preserve the derivational structure of $C^*$-algebras. (English summary) **2001h:46122**
**Mahyar, H.** *see* **Honary, T. G., 2001b:46083**
**McCarthy, John E.** *see* **Agler, Jim, 2001j:32007**
**Meštrović, Romeo** (*with* Pavićević, Žarko; Labudović, Novo) Remarks on generalized Hardy algebras. (English summary) **2001h:46040**
**Pavićević, Žarko** *see* **Meštrović, Romeo et al., 2001h:46040**
**Seddighi, K.** *see* **Vaezpour, S. M., 2001i:47047**
**Suciu, Elena Alina** Elementary replacements and $\mathrm{Ext}^2$ groups for Hilbert modules over a function algebra. (English summary) **2001i:46113**
**Takagi, Hiroyuki** Cyclic composition operators on the disc algebra. (Japanese) (*see* **2001e:46001**)
**Vaezpour, S. M.** (*with* Seddighi, K.) Essentially commuting Toeplitz operators with pluriharmonic symbols. (English and Farsi summaries) **2001i:47047**
**White, Michael C.** *see* **Gourdeau, Frédéric, 2001m:46163**
**Yue, Xiu Kui** Multipliers of $G^p$ spaces. (Chinese. Chinese summary) **2001c:46050**
**Zakaryan, M. A.** Parametric representations and duality of weighted spaces of functions harmonic in a half-space. (Russian. English and Russian summaries) **2001b:42028**
**Zhu, Kehe** *see* **Hedenmalm, Håkan et al., 2001c:46043**

## 46J20 Ideals, maximal ideals, boundaries

**Decreux, Eric** Closed ideals of a quasianalytic Fréchet algebra. (English summary) **2001m:46106**
**Garimella, Ramesh V.** Accessible prime ideals in commutative Banach algebras. (English summary) **2001b:46084**
**Harlouchet, Iban** Idéaux fermés de certaines algèbres de Beurling quasianalytiques sur le cercle unité. (English and French summaries) [Closed ideals of certain quasianalytic Beurling algebras on the unit circle] **2001h:46097**
**Host-Madsen, Anders** Separable algebras and covering spaces. **2001i:46085**

**Martínez Meléndez, Angel** (*with* Wawrzyńczyk, Antoni) Families of ideals in Banach algebras and joint spectra. (English summary) (*see* **2001d:00036**)
**Nikol'skiĭ, Nikolai K.** In search of the invisible spectrum. **2001a:46053**
**Varankina, V. I.** Maximal ideals in semirings of continuous functions. (Russian. English and Russian summaries)
**Wawrzyńczyk, Antoni** *see* **Martínez Meléndez, Angel**, (**2001d:00036**)

Items with secondary classifications in 46J20

**Amar, Éric** (*with* Menini, Chantal) Universal divisors in Hardy spaces. (English summary) **2001m:46105**
**Boussaf, Kamal** Shilov boundary of a Krasner Banach algebra $H(D)$. (English summary) **2001m:46165**
**Bridges, Douglas S.** Constructive methods in Banach algebra theory. (English summary) **2001g:46162**
**Dixon, P. G.** Non-closed sums of closed ideals in Banach algebras. (English summary) **2001g:46108**
**Ebadian, Ali** Prime ideals in Lipschitz algebras of finite differentiable functions. (English summary) **2001g:46117**
**Honary, T. G.** (*with* Mahyar, H.) Approximation in Lipschitz algebras of infinitely differentiable functions. (English summary) **2001b:46083**
— (*with* Mahyar, H.) Approximation in Lipschitz algebras. (English summary) **2001j:46074**
**Ishii, Takashi** *see* **Izuchi, Keiji**, (**2001e:46001**)
**Izuchi, Keiji** (*with* Ishii, Takashi) Prime ideal of $H^\infty$. (Japanese) (*see* **2001e:46001**)
**Mahyar, H.** Boundaries and peak points of Lipschitz algebras. (English summary) **2001e:46096**
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## 46J25 Representations of commutative topological algebras

**Kislyakov, S. V.** The similarity problem for some martingale uniform algebras. (Russian. English and Russian summaries) **2001m:46107**

## 46J30 Subalgebras

**Hatori, Osamu** Subalgebras of commutative Banach algebras and Fourier multipliers with natural spectra. (English summary) **2001d:46081**

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**Batikyan, B. T.** Point derivations in algebraic extension of Banach algebra. (English summary) **2001g:46118**
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# 46Kxx Topological (rings and) algebras with an involution [see also 16W10]

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**Barnes, Bruce A.** Symmetric Banach $*$-algebras: invariance of spectrum. (English summary) **2001h:46098**
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**Wu, Wei**[3] A theorem of submultiplication. (Chinese. English and Chinese summaries) **2001h:46099**

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**Donsig, Allan P.** (*with* Hudson, Timothy D.; Katsoulis, E. G.) Algebraic isomorphisms of limit algebras. (English summary) **2001k:47103**
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**Nguyễn Văn Thu** Morita invariance of entire current cyclic homology. (English summary) **2001c:46127**
**Power, Stephen C.** Grothendieck group invariants for partly self-adjoint operator algebras. (English summary) **2001m:47142**

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**Marion, Jean A.** Gauge frameworks over locally $M$-convex Fréchet unital involutive algebras and gauge representations of their unitary groups. (English summary) **2001j:46076**
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**Antoine, J.-P.** (*with* Inoue, Atsushi[2]; Trapani, Camillo) Biweights on partial $^*$-algebras. (English summary) **2001f:47114**
**Borowiec, Andrzej** (*with* Marcinek, Władysław) On crossed product of algebras. (English summary) **2001g:16051**
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## 46K50 Nonselfadjoint (sub)algebras in algebras with involution

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## 46K70 Nonassociative topological algebras with an involution [see also 46H70, 46L70]

**Castellón Serrano, Alberto** (*with* Cuenca Mira, José Antonio; Martín González, Cándido) Special Jordan $H^*$-triple systems. (English summary) **2001k:46083**
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**Ogi, Hidekazu** *see* **Inoue, Atsushi[2] et al., 2001f:47115**

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**Solov′ëv, Yuriĭ Petrovich** (*with* Troitskiĭ, E. V.) ★ $C^*$-algebras and elliptic operators in differential topology. (English summary) **2001f:58050**
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**Larson, David R.** *see* **Frank, Michael, 2001b:46094**
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**Muhly, Paul S.** (*with* Solel, Baruch) On quotients of tensor algebras and their $C^*$-envelopes. (English summary) **2001f:46087**
**Pal, Arupkumar** Regularity of operators on essential extensions of the compacts. (English summary) **2001d:46088**
**Park, Efton** Isometries of unbounded Fredholm modules over manifolds. (English summary) **2001m:46132**
**Paseka, Jan** Hermitian kernels, Hilbert $Q$-modules and Ando dilation. (English summary) **2001h:46110**
**Phillips, John** *see* **Carey, Alan L. et al., 2001h:46107**
**Pop, Ciprian** Bimodules normés représentables sur des espaces hilbertiens. (English summary) [Representable normed bimodules on Hilbert spaces] **2001h:46111**
**Popovici, D.** Orthogonal decompositions in Hilbert $C^*$-modules and stationary processes. (English summary) **2001d:46089**
**Raeburn, Iain** *see* **Fowler, Neal J., 2001b:46093** *and* **Echterhoff, Siegfried, 2001g:46133**
**Solel, Baruch** *see* **Muhly, Paul S., 2001f:46087**
**Sukochev, Fedor A.** *see* **Carey, Alan L. et al., 2001h:46107**
**Trapani, Camillo** *see* **Bagarello, Fabio, 2001m:46130**
**Troitskiĭ, E. V.** Geometry and topology of operators on Hilbert $C^*$-modules. **2001k:46096**
— *see also* **Manuilov, V. M., 2001k:46094**

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**Ara, Pere** (*with* Goodearl, Kenneth R.; O'Meara, K. C.; Raphael, Robert M.) $K_1$ of separative exchange rings and $C^*$-algebras with real rank zero. (English summary) **2001m:46155**
**Arveson, William** The curvature of a Hilbert module over $\mathbf{C}[z_1, \cdots, z_d]$. (English summary) **2001k:47010**
**Brückler, Franka Miriam** Tensor products of $C^*$-algebras, operator spaces and Hilbert $C^*$-modules. (English summary) **2001c:46113**
**Carey, Alan L.** (*with* Paolucci, A.; Zhang, Rui Bin) Quantum group actions on the Cuntz algebra. (English summary) **2001m:17011**
**Echterhoff, Siegfried** (*with* Kaliszewski, S.; Quigg, John; Raeburn, Iain) Naturality and induced representations. (English summary) **2001j:46101**
**Exel, Ruy** Morita-Rieffel equivalence and spectral theory for integrable automorphism groups of $C^*$-algebras. (English summary) **2001h:46104**
**Goodearl, Kenneth R.** *see* **Ara, Pere et al., 2001m:46155**
**Hong, Jeong Hee** (*with* Kosaki, Hideki) The group of one-dimensional bimodules arising from composition of subfactors. (English summary) **2001e:46108**
**Kaliszewski, S.** *see* **Echterhoff, Siegfried et al., 2001j:46101**
**Kosaki, Hideki** *see* **Hong, Jeong Hee, 2001e:46108**
**Kustermans, Johan** Regular $C^*$-valued weights. (English summary) **2001g:46126**
**Masuda, Toshihiko** Generalization of Longo-Rehren construction to subfactors of infinite depth and amenability of fusion algebras. (English summary) **2001f:46093**
**Mrčun, Janez** Functoriality of the bimodule associated to a Hilsum-Skandalis map. (English summary) **2001k:22004**
**O'Meara, K. C.** *see* **Ara, Pere et al., 2001m:46155**
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**Pavlov, A. A.** Quasimultipliers and left multipliers as strict essential extensions of $C^*$-algebras. (Russian. English and Russian summaries) **2001k:46090**
**Quigg, John** *see* **Echterhoff, Siegfried et al., 2001j:46101**
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**Stachura, Piotr** $C^*$-algebra of a differential groupoid. **2001m:22006**
**Szymański, Wojciech** Bimodules for Cuntz-Krieger algebras of infinite matrices. (English summary) **2001g:46151**
**Troitskiĭ, E. V.** Functionals on $l_2(A)$ and theorems of Kuiper and Dixmier-Douady types for $C^*$-Hilbert modules. (Russian) **2001a:46067**
**(Zakrzewski, Stanisław)** *see* **Stachura, Piotr, 2001m:22006**
**Zhang, Rui Bin** *see* **Carey, Alan L. et al., 2001m:17011**

## 46L09 Free products of $C^*$-algebras

**Boca, Florin P.** A note on full free product $C^*$-algebras, lifting and quasidiagonality. (English summary) **2001h:46112**

**Choda, Marie** (*with* Dykema, Kenneth J.) Purely infinite, simple $C^*$-algebras arising from free product constructions. III. (English summary) **2001b:46095**
**Dykema, Kenneth J.** Free products of exact groups. (English summary) **2001m:46133**
— (*with* Rørdam, Mikael) Projections in free product $C^*$-algebras. II. (English summary) **2001f:46088**
— *see also* **Choda, Marie, 2001b:46095**
**Młotkowski, Wojciech** Free probability on algebras with infinitely many states. (English summary) **2001b:46096**
**Okayasu, Rui** Cuntz-Krieger-Pimsner algebras associated with amalgamated free products groups. (Japanese) (*see* **2001m:46001**)
**Rørdam, Mikael** *see* **Dykema, Kenneth J., 2001f:46088**
**Sakamoto, Takashi** Certain reduced free products with amalgamation of $C^*$-algebras. (English summary) **2001g:46135**
**Samet-Vaillant, A. Y.** Free $^*$-subalgebras of $C^*$-algebras. (English summary) **2001h:46113**
**Ueda, Yoshimichi** The $\chi$-invariants of certain amalgamated free products. (Japanese) (*see* **2001m:46001**)
— Remarks on free products with respect to non-tracial states. **2001m:46134**

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**Hiai, Fumio** Free products of rings of operators and free probability theory. (Japanese) **2001c:46117**
**Speicher, Roland** A conceptual proof of a basic result in the combinatorial approach to freeness. (English summary) **2001m:46147**

## 46L10 General theory of von Neumann algebras

**Abdullaev, R. Z.** Isomorphisms of Arens algebra of type I. (English summary) **2001b:46097**
**Alberti, Peter M.** (*with* Uhlmann, Armin) On Bures distance and $*$-algebraic transition probability between inner derived positive linear forms over $W^*$-algebras. (English summary) **2001e:46102**
**Bunce, L. J.** (*with* Chu, Cho-Ho; Zalar, Borut) Classification of sequentially weakly continuous JB$^*$-triples. (English summary) **2001d:46090**
**Chu, Cho-Ho** *see* **Bunce, L. J. et al., 2001d:46090**
**Dodds, P. G.** (*with* Sukochev, Fedor A.) Non-commutative bounded Vilenkin systems. (English summary) **2001g:46136**
**Elliott, George A.** On the convergence of a sequence of completely positive maps to the identity. (English summary) **2001g:46137**
**Haagerup, Uffe** (*with* Winsløw, Carl) The Effros-Maréchal topology in the space of von Neumann algebras. II. (English summary) **2001a:46058**
**Ji, Guo Xing** Maximality of semi-finite subdiagonal algebras. (Chinese. English and Chinese summaries) **2001h:46114**
**Kim, Hyoungsoon** Middle semicontinuity for unbounded operators. (English summary) **2001b:46098**
**Kodirov, K. R.** The $O^*$-algebra of measurable elements with respect to a subadditive measure. (Russian. English and Uzbek summaries) **2001b:46099**
**Leitz-Martini, M.** (*with* Wollenberg, M.) Notes on modular conjugations of von Neumann factors. (English summary) **2001a:46059**
**Manuilov, V. M.** Almost commutativity implies asymptotic commutativity. (English summary) **2001g:46138**
**Ozawa, Narutaka** On the set of finite-dimensional subspaces of preduals of von Neumann algebras. (English and French summaries) **2001f:46089**
**Pavlov, A. A.** The functor $N_0$ over the category of von Neumann algebras and its relation to operator $K$-theory. (Russian. Russian summary) **2001g:46139**
**Sherstnev, A. N.** (*with* Turilova, E. A.) Classes of subspaces affiliated with a von Neumann algebra. (English summary) **2001m:46135**
**Størmer, Erling** Entropy of endomorphisms and relative entropy in finite von Neumann algebras. (English summary) **2001b:46100**
**Sukochev, Fedor A.** *see* **Dodds, P. G., 2001g:46136**
**Sunder, V. S.** Commuting squares. **2001b:46101**
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**Uhlmann, Armin** *see* **Alberti, Peter M., 2001e:46102**
**Usmanov, Sh. M.** Takesaki's duality theorem and continuous decomposition for real factors of type III. (Russian. Russian summary) **2001i:46095**
**West, Graeme** Spectral theory and quotients in von Neumann algebras. (English summary) **2001i:46096**
**Winsløw, Carl** *see* **Haagerup, Uffe, 2001a:46058**
**Wollenberg, M.** *see* **Leitz-Martini, M., 2001a:46059**
**Yamanouchi, Takehiko** Double group construction for $W^*$-quantum groups. (*see* **2001a:46001**)
**Yang, Hai Tao[1]** Decomposition for commutative $J$-von Neumann algebras. (Chinese. English and Chinese summaries)
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**Anantharaman-Delaroche, C.** (*with* Renault, Jean N.) ★ Amenable groupoids. (English summary) **2001m:22005**
**Andruchow, Esteban** (*with* Corach, Gustavo; Stojanoff, Demetrio) Geometry of the sphere of a Hilbert module. (English summary) **2001a:46055**
**Aupetit, Bernard** Spectrum-preserving linear mappings between Banach algebras or Jordan-Banach algebras. **2001b:46078**
**Baumgärtel, Hellmut** Dual actions on $C^*$-algebras and Hilbert extensions. (English summary) (*see* **2001e:81005**)
**Bikchentaev, A. M.** On a property of $L_p$-spaces on semifinite von Neumann algebras. (Russian. Russian summary) **2001a:46062**
**Carey, Alan L.** (*with* Farber, Michael S.; Mathai, Varghese) Correspondences, von Neumann algebras and holomorphic $L^2$ torsion. (English summary) **2001g:58056**
**Ceccherini-Silberstein, Tullio G.** $C^*$ algebras associated with von Neumann algebras. (Italian summary) **2001j:46079**
**Clifton, Rob** *see* **Halvorson, Hans, 2001c:81102**
**Corach, Gustavo** *see* **Andruchow, Esteban et al., 2001a:46055**
**Falcone, Tony** $L^2$-von Neumann modules, their relative tensor products and the spatial derivative. (English summary) **2001g:46132**
**Farber, Michael S.** *see* **Carey, Alan L. et al., 2001g:58056**
**Figliolini, Franca** (*with* Guido, Daniele) Inclusions of second quantization algebras. **2001m:81118**
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**Ishikawa, Yoichiro** (*with* Miura, Yasuhide) Matrix inequalities associated with a selfdual cone. (English summary) **2001b:47060**
**Jajte, Ryszard** On some versions of Jensen's inequality on operator algebras. (English summary) **2001g:47034**
**Jamjoom, F. B. H.** On the tensor products of scattered JC-algebras. (English summary) **2001i:46109**
**Jones, V. F. R.** Ten problems. (English summary) **2001a:57001**
**Le Merdy, Christian** (*with* Magajna, Bojan) A factorization problem for normal completely bounded mappings. (English summary) **2001m:46127**
**Łuczak, Andrzej** On ideal measurements and their corresponding instruments on von Neumann algebras. (English summary) **2001j:81034**
**Magajna, Bojan** $C^*$-convexity and the numerical range. (English summary) **2001f:46084**
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— *see also* **Le Merdy, Christian, 2001m:46127**
**Mathai, Varghese** *see* **Carey, Alan L. et al., 2001g:58056**
**Matveichuk, M. S.** Hermitian measures in $W^*J$-algebras in Hilbert spaces with conjugation. (English summary) **2001h:81106**
**Miura, Yasuhide** Complete order isomorphisms between non-commutative $L^2$-spaces. (English summary) **2001i:46092**
— *see also* **Ishikawa, Yoichiro, 2001b:47060**
**Molnár, Lajos** Wigner-type theorem on symmetry transformations in type II factors. (English summary) **2001i:46098**
**Mukhamedov, F. M.** On compactness of some sets of positive maps on von Neumann algebras. (English summary) **2001e:46112**
**Popa, Sorin** Some properties of the symmetric enveloping algebra of a subfactor, with applications to amenability and property T. (English summary) **2001c:46116**
**Rehren, Karl-Henning** Canonical tensor product subfactors. (English summary) **2001d:46093**
**Renault, Jean N.** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Shlyakhtenko, Dimitri** Free entropy with respect to a completely positive map. (English summary) **2001f:46102**
**(Skandalis, Georges)** *see* **Anantharaman-Delaroche, C., 2001m:22005**
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**Ueda, Yoshimichi** Amalgamated free product over Cartan subalgebra. (English summary) **2001a:46063**
**Voiculescu, Dan** The coalgebra of the free difference quotient and free probability. **2001d:46096**
**Yamanouchi, Takehiko** $W^*$-quantum groups arising from matched pairs of groups. (English summary) **2001c:46120**
**Yonetani, Kazumi** Operator algebras constructed from Hilbert bimodules. (Japanese) (*see* **2001f:46001**)

## 46L30 States

**Archbold, R. J.** Extensions of pure states and projections of norm one. II. (English summary) **2001j:46087**
**Bratteli, Ola** (*with* Kishimoto, Akitaka) Homogeneity of the pure state space of the Cuntz algebra. (English summary) **2001m:46136**
**Farenick, Douglas R.** Extremal matrix states on operator systems. (English summary) **2001e:46103**
**Fowler, Neal J.** (*with* Laca, Marcelo) Endomorphisms of $\mathcal{B}(\mathcal{H})$, extensions of pure states, and a class of representations of $\mathcal{O}_n$. (English summary) **2001f:46090**
**Hamhalter, Jan** Restricting and extending states and positive maps on operator algebras. (English summary) **2001i:46097**
**Hayashi, Tomohiro[2]** Factoriality of harmonic traces on string algebras. (English summary) **2001g:46140**
**Jeong, Eui-Chai** (*with* Lee, Jung-Rye; Shin, Dong-Yun) Linear functionals on $\mathcal{O}_n$ associated to unit vectors. (English summary) **2001j:46088**
**Kishimoto, Akitaka** *see* **Bratteli, Ola, 2001m:46136**
**Laca, Marcelo** *see* **Fowler, Neal J., 2001f:46090**
**Lee, Jung-Rye** *see* **Jeong, Eui-Chai et al., 2001j:46088**
**Shin, Dong-Yun** *see* **Jeong, Eui-Chai et al., 2001j:46088**

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**Bratteli, Ola** (*with* Jørgensen, Palle E. T.; Kishimoto, Akitaka; Werner, Reinhard F.) Pure states on $\mathcal{O}_d$. (English summary) **2001b:46086**
**Brown, Lawrence G.** (*with* Wong, Ngai-Ching) Left quotients of $C^*$-algebras. II. Atomic parts of left quotients. (English summary) **2001d:46085**
**Fernández, Claudio A.** *see* **Accardi, Luigi et al., 2001m:46141**
**Halvorson, Hans** The Einstein-Podolsky-Rosen state maximally violates Bell's inequalities. (English summary) **2001m:81012**
**Jørgensen, Palle E. T.** *see* **Bratteli, Ola et al., 2001b:46086**
**Kishimoto, Akitaka** *see* **Bratteli, Ola et al., 2001b:46086**
**Kodaka, Kazunori** The positive cones of $K_0$-groups of crossed products associated with Furstenberg transformations on the 2-torus. (English summary) **2001b:46111**

**Paschke, William L.** Pure eigenstates for the sum of generators of the free group. (English summary) **2001m:46122**
**Prado, Humberto** *see* **Accardi, Luigi et al., 2001m:46141**
**Rebolledo, Rolando** *see* **Accardi, Luigi et al., 2001m:46141**
**Ueda, Yoshimichi** Remarks on free products with respect to non-tracial states. **2001m:46134**
**Werner, Reinhard F.** *see* **Bratteli, Ola et al., 2001b:46086**
**Wong, Ngai-Ching** *see* **Brown, Lawrence G., 2001d:46085**

## 46L35 Classifications of $C^*$-algebras, factors

**Boo, Deok-Hoon** (*with* Park, Chun-Gil; Park, Won-Gil) Strong Morita equivalence for projective non-commutative tori. (English summary) **2001f:46091**
**Byun, Chang Ho** *see* **Kim, Dong Seo, 2001e:46105**
**Dadarlat, Marius** Nonnuclear subalgebras of AF algebras. (English summary) **2001g:46141**
**Gjerde, Richard** (*with* Johansen, Ørjan) $C^*$-algebras associated to non-homogeneous minimal systems and their $K$-theory. **2001e:46104**
**Hayashi, Tomohiro[2]** Random walks on fusion algebras. (Japanese. English summary) (*see* **2001d:46003**)
**Johansen, Ørjan** *see* **Gjerde, Richard, 2001e:46104**
**Kawamuro, Keiko** A Rokhlin property for one-parameter automorphism groups of the hyperfinite $\mathrm{II}_1$ factor. (Japanese) (*see* **2001d:46003**)
**Kim, Dong Seo** (*with* Byun, Chang Ho) Notes on the factors over the Hilbert space $L^2(\mathcal{R}_G, \mu_t)$. (English summary) **2001e:46105**
**Kumjian, Alex** (*with* Pask, David) Higher rank graph $C^*$-algebras. (English summary) **2001b:46102**
**Lin, Huaxin** Tracially AF $C^*$-algebras. (English summary) **2001j:46089**
**Nielsen, Karen Egede** Homomorphisms into simple limits of circle algebras. **2001d:46091**
**Park, Chun-Gil** *see* **Boo, Deok-Hoon et al., 2001f:46091**
**Park, Won-Gil** *see* **Boo, Deok-Hoon et al., 2001f:46091**
**Pask, David** *see* **Kumjian, Alex, 2001b:46102**
**Usmanov, Sh. M.** Real factors of type $\mathrm{III}_0$. (Russian) **2001c:46115**
**Zacharias, Joachim** Splitting for subalgebras of tensor products. (English summary) **2001e:46106**

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**Boca, Florin P.** (*with* Goldstein, Pavle) Topological entropy for the canonical endomorphism of Cuntz-Krieger algebras. (English summary) **2001f:46097**
**Borchers, H. J.** On revolutionizing quantum field theory with Tomita's modular theory. (English summary) **2001h:81134**
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**Connes, Alain** Trace formula on the adèle class space and Weil positivity. (English summary) **2001a:11185**
**Đỗ Ngọc Diệp** ★ Methods of noncommutative geometry for group $C^*$-algebras. (English summary) **2001g:46152**
**Elliott, George A.** (*with* Fulman, Igor) On classification of certain $C^*$-algebras. (English summary) **2001m:46113**
**Figliolini, Franca** (*with* Guido, Daniele) Inclusions of second quantization algebras. **2001m:81118**
**Fowler, Neal J.** (*with* Laca, Marcelo) Endomorphisms of $\mathcal{B}(\mathcal{H})$, extensions of pure states, and a class of representations of $\mathcal{O}_n$. (English summary) **2001f:46090**
**Fulman, Igor** *see* **Elliott, George A., 2001m:46113**
**Ganikhodzhaev, N. N.** (*with* Mukhamedov, F. M.) Markov states on quantum lattice systems and its representations. (English summary) **2001f:46107**
**Goldstein, Pavle** *see* **Boca, Florin P., 2001f:46097**
**Gong, Guihua** (*with* Lin, Huaxin) Classification of homomorphisms from $C(X)$ to simple $C^*$-algebras of real rank zero. (English summary) **2001i:46088**
**Guido, Daniele** *see* **Figliolini, Franca, 2001m:81118**
**Haagerup, Uffe** (*with* Rosenthal, Haskell P.; Sukochev, Fedor A.) On the Banach-isomorphic classification of $L_p$ spaces of hyperfinite von Neumann algebras. (English and French summaries) **2001j:46095**
— (*with* Winslow, Carl) The Effros-Maréchal topology in the space of von Neumann algebras. II. (English summary) **2001a:46058**
**Hiai, Fumio** Free products of rings of operators and free probability theory. (Japanese) **2001c:46117**
**Kaminker, Jerome** (*with* Perera, Vicumpriya) Type II spectral flow and the eta invariant. (English summary) **2001h:58033**
**Kim, Sang Og** Linear maps preserving ideals of $C^*$-algebras. (English summary) **2001m:47077**
**Kirchberg, Eberhard** Das nicht-kommutative Michael-Auswahlprinzip und die Klassifikation nicht-einfacher Algebren. (English summary) [The noncommutative Michael selection principle and the classification of non-simple algebras] **2001m:46161**
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— (*with* Phillips, N. Christopher) Embedding of exact $C^*$-algebras in the Cuntz algebra $\mathcal{O}_2$. (English summary) **2001d:46086a**
**Laca, Marcelo** *see* **Fowler, Neal J., 2001f:46090**
**Leitz-Martini, M.** (*with* Wollenberg, M.) Notes on modular conjugations of von Neumann factors. (English summary) **2001a:46059**
**Lin, Huaxin** Homomorphisms from $C^*$-algebras of continuous trace. (English summary) **2001b:46088**
— *see also* **Gong, Guihua, 2001i:46088**
**Matsumoto, Kengo** A simple $C^*$-algebra arising from a certain subshift. (English summary) **2001c:46118**
**Mukhamedov, F. M.** *see* **Ganikhodzhaev, N. N., 2001f:46107**
**Nakamura, Hideki[1]** A Rohlin type theorem for automorphisms of certain purely infinite $C^*$-algebras. (English summary) **2001g:46144**
**Pasnicu, Cornel** Shape equivalence, nonstable $K$-theory and $AH$ algebras. (English summary) **2001d:46102**
**Perera, Vicumpriya** *see* **Kaminker, Jerome, 2001h:58033**
**Phillips, N. Christopher** A classification theorem for nuclear purely infinite simple $C^*$-algebras. (English summary) **2001d:46086b**
— *see also* **Kirchberg, Eberhard, 2001d:46086a**
**Pimsner, Mihai V.** Embedding covariance algebras of flows into AF-algebras. (English summary) **2001b:46109**
**Rakhimov, Abdugafur** Actions of finite groups on the hyperfinite real type $\mathrm{II}_1$ factor. **2001k:46098**
— The structure of subfactors of a real factor of type $\mathrm{III}_\lambda$ $(0 < \lambda < 1)$ that contain a maximal centralizer. (Russian. English and Uzbek summaries) **2001j:46091**
**Rørdam, Mikael** *see* **Kirchberg, Eberhard, 2001k:46088**
**Rosenthal, Haskell P.** *see* **Haagerup, Uffe et al., 2001j:46095**
**Shlyakhtenko, Dimitri** Free entropy with respect to a completely positive map. (English summary) **2001f:46102**
**Sukochev, Fedor A.** *see* **Haagerup, Uffe et al., 2001j:46095**
**Winslow, Carl** *see* **Haagerup, Uffe, 2001a:46058**
**Wollenberg, M.** *see* **Leitz-Martini, M., 2001a:46059**

## 46L37 Subfactors and their classification

**Andruchow, Esteban** (*with* Varela, Alejandro) Weight centralizer expectations with finite index. (English summary) **2001a:46060**
**Banica, Teodor** Subfactors associated to compact Kac algebras. (English summary) **2001j:46090**
**Böckenhauer, Jens** (*with* Evans, David E.; Kawahigashi, Yasuyuki) Chiral structure of modular invariants for subfactors. (English summary) **2001k:46097**
— (*with* Evans, David E.) Modular invariants from subfactors: Type I coupling matrices and intermediate subfactors. (English summary) **2001g:46142**
**Enock, Michel** (*with* Vallin, Jean-Michel) Inclusions of von Neumann algebras, and quantum groupoids. (English summary) **2001h:46115**
**Evans, David E.** *see* **Böckenhauer, Jens et al., 2001g:46142** *and* **2001k:46097**
**Gnerre, Sante** Free composition of paragroups. (English summary) **2001g:46143**
**Goto, Satoshi** Quantum double construction for subfactors arising from periodic commuting squares. (English summary) **2001f:46092**
**Hayashi, Tomohiro[2]** (*with* Yamagami, Shigeru) Amenable tensor categories and their realizations as AFD bimodules. (English summary) **2001d:46092**
— Harmonic function spaces of probability measures on fusion algebras. (English summary) **2001e:46107**
**Hong, Jeong Hee** (*with* Kosaki, Hideki) The group of one-dimensional bimodules arising from composition of subfactors. (English summary) **2001e:46108**
**Kawahigashi, Yasuyuki** *see* **Böckenhauer, Jens et al., 2001k:46097**
**Kodiyalam, Vijay** (*with* Sunder, V. S.) The subgroup-subfactor. (English summary) **2001b:46103**
**Kosaki, Hideki** *see* **Hong, Jeong Hee, 2001e:46108**
**Kosyak, A. V.** (*with* Zekri, Richard) Regular representations of infinite-dimensional groups and factors. I. (English summary) **2001h:46116**
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**Popa, Sorin** Some properties of the symmetric enveloping algebra of a subfactor, with applications to amenability and property T. (English summary) **2001c:46116**
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**Rehren, Karl-Henning** Canonical tensor product subfactors. (English summary) **2001d:46093**
— New subfactors associated with closed systems of sectors. (English summary) (*see* **2001d:46003**)
**Sinclair, Allan M.** (*with* Smith, Roger R.) Cohomology for finite index inclusions of factors. (English summary) **2001m:46137**
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**Choda, Marie** Entropy of Cuntz's canonical endomorphism. (English summary) **2001e:46114**
**Fuchs, Jürgen** (*with* Schweigert, Christoph) Solitonic sectors, $\alpha$-induction and symmetry breaking boundaries. (English summary) **2001k:81222**
**Hamachi, Toshihiro** Canonical subrelations of ergodic equivalence relations-subrelations. (English summary) **2001d:37005**
**Hayashi, Tomohiro[2]** Factoriality of harmonic traces on string algebras. (English summary) **2001g:46140**

**Hong, Jeong Hee** (*with* Szymański, Wojciech) On cohomological deformations of bicrossed product Hopf algebras. (English summary) **2001b:16045**
**Jones, V. F. R.** Ten problems. (English summary) **2001a:57001**
**Kadison, Lars** ★ New examples of Frobenius extensions. (English summary) **2001j:16024**
**Nikshych, D. A.** (*with* Vainerman, Leonid) A Galois correspondence for $II_1$ factors and quantum groupoids. (English summary) **2001j:46102**
**Price, Geoffrey L.** On the classification of binary shifts of finite commutant index. (English summary) **2001d:46095**
**Schweigert, Christoph** *see* **Fuchs, Jürgen, 2001k:81222**
**Sunder, V. S.** Commuting squares. **2001b:46101**
**Szymański, Wojciech** *see* **Hong, Jeong Hee, 2001b:16045**
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**Vainerman, Leonid** *see* **Nikshych, D. A., 2001j:46102**
**Xu, Feng**[5] Algebraic coset conformal field theories. (English summary) **2001m:81269**

## 46L40 Automorphisms

**Bratteli, Ola** (*with* Kishimoto, Akitaka) Trace scaling automorphisms of certain stable AF algebras. II. (English summary) **2001j:46092**
**Golodets, Valentin Ya.** (*with* Størmer, Erling) Generators and comparison of entropies of automorphisms of finite von Neumann algebras. (English summary) **2001f:46095**
**Jeong, J. A.** Extremally rich graph $C^*$-algebras. (English summary) **2001m:46138**
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**Molnár, Lajos** Wigner-type theorem on symmetry transformations in type II factors. (English summary) **2001i:46098**
**Muhly, Paul S.** (*with* Xia, Jingbo) On automorphisms of the Toeplitz algebra. (English summary) **2001m:46139**
**Nakamura, Hideki**[1] A Rohlin type theorem for automorphisms of certain purely infinite $C^*$-algebras. (English summary) **2001g:46144**
**Price, Geoffrey L.** On the classification of binary shifts of finite commutant index. (English summary) **2001d:46095**
**Rakhimov, Abdugafur** Actions of finite groups on the hyperfinite real type $II_1$ factor. **2001k:46098**
**Saitô, Kazuyuki** (*with* Wright, J. D. Maitland) Outer automorphisms of the generic dynamics factor. (English summary) **2001j:46093**
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**Davidson, Kenneth R.** (*with* Pitts, David R.) The algebraic structure of non-commutative analytic Toeplitz algebras. **2001c:47082**
**Hong, Jeong Hee** (*with* Kosaki, Hideki) The group of one-dimensional bimodules arising from composition of subfactors. (English summary) **2001e:46108**
**Kawamuro, Keiko** A Rokhlin property for one-parameter automorphism groups of the hyperfinite $II_1$ factor. (Japanese) (*see* **2001d:46003**)
**Kosaki, Hideki** *see* **Hong, Jeong Hee, 2001e:46108**
**Lu, Fang Yan** (*with* Lu, Shi Jie) Isometries of certain triangular algebras. (Chinese. Chinese summary) **2001b:47130**
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**Masuda, Toshihiko** Extension of automorphisms of a subfactor to the symmetric enveloping algebra. (Japanese) (*see* **2001a:46001**)
— On classification of approximately inner actions of discrete amenable groups on strongly amenable subfactors. (*see* **2001d:46003**)
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**Yan, Cong Quan** (*with* Sun, Shun Hua) The automorphism group of the Toeplitz algebra on $H^2(\mathbf{T}^2)$. (English summary) **2001d:47118**

## 46L45 Decomposition theory for $C^*$-algebras

**Akiyama, Mai** (*with* Yoshida, Hiroaki) The distributions for linear combinations of a free family of projections and their applications. (*see* **2001a:46001**)
**Xu, Qing Xiang** The natural morphisms between Toeplitz algebras on discrete groups. (English summary) **2001h:46117**
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**Fowler, Neal J.** (*with* Raeburn, Iain) The Toeplitz algebra of a Hilbert bimodule. (English summary) **2001b:46093**
**Kumjian, Alex** (*with* Pask, David) Higher rank graph $C^*$-algebras. (English summary) **2001b:46102**
**Li, Bingren** Real Tomita-Takesaki theory. (English summary) **2001f:46083**
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**Sudo, Takahiro** Survey on the rank and structure theory of group $C^*$-algebras of Lie groups. (English summary) **2001k:46093**
— Ranks and embeddings of $C^*$-algebras of continuous fields. (Japanese) (*see* **2001m:46001**)
**Zacharias, Joachim** Splitting for subalgebras of tensor products. (English summary) **2001e:46106**

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**Goldstein, Pavle** *see* **Boca, Florin P., 2001f:46097**
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**Litvinov, S. N.** On Besicovitch weighted ergodic theorem in von Neumann algebras. (English summary) **2001i:46099**
**Łuczak, Andrzej** Mixing and asymptotic properties of Markov semigroups on von Neumann algebras. (English summary) **2001k:46099**
**Matveichuk, M. S.** Measures on effects and on projections in spaces with indefinite metric. (English summary) **2001e:46110**
**Sukochev, Fedor A.** Linear-topological classification of separable $L_p$-spaces associated with von Neumann algebras of type I. (English summary) **2001a:46061**

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**Falcone, Tony** $L^2$-von Neumann modules, their relative tensor products and the spatial derivative. (English summary) **2001g:46132**
**Kodirov, K. R.** The $O^*$-algebra of measurable elements with respect to a subadditive measure. (Russian. English and Uzbek summaries) **2001b:46099**
**Liu, Jun-ping** Some results on operator-valued measure and integration. (English and Chinese summaries) **2001m:46095**

## 46L52 Noncommutative function spaces

**Abdullaev, R. Z.** Isomorphisms of Arens algebras. (Russian. Russian summary) **2001i:46100**
**Fidaleo, Francesco** Canonical operator space structures on non-commutative $L^p$ spaces. (English summary) **2001b:46104**
**Goldstein, Stanisław** (*with* Phan Viet Thu) $L^p$-spaces for $C^*$-algebras with a state. (English summary) **2001i:46101**
**Haagerup, Uffe** (*with* Rosenthal, Haskell P.; Sukochev, Fedor A.) On the Banach-isomorphic classification of $L_p$ spaces of hyperfinite von Neumann algebras. (English and French summaries) **2001j:46095**
**Izumi, Hideaki** Non-commutative $L^p$-spaces. (Japanese) (*see* **2001d:46003**)
**Junge, Marius** Embeddings of non-commutative $L_p$-spaces into non-commutative $L_1$-spaces, $1 < p < 2$. (English summary) **2001f:46098**
**Labuschagne, L. E.** Composition operators on non-commutative $L_p$-spaces. (English summary) **2001f:46099**
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**Abdullaev, R. Z.** Isomorphisms of Arens algebra of type I. (English summary) **2001b:46097**
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**Chilin, V. I.** *see* **Ganiev, I. G., 2001m:46109**
**Ganiev, I. G.** (*with* Chilin, V. I.) Ordered Banach-Kantorovich $*$-algebroids. (Russian. English and Uzbek summaries) **2001m:46109**
**Harcharras, Asma** Fourier analysis, Schur multipliers on $S^p$ and non-commutative $\Lambda(p)$-sets. (English summary) **2001f:43004**
**Ibragimov, M. M.** A relation between the SFS-space and a base-norm space. (Russian. English and Uzbek summaries) **2001m:46037**
**Kim, Hyoungsoon** Middle semicontinuity for unbounded operators. (English summary) **2001b:46098**
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## 46L53 Noncommutative probability and statistics

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**Bikchentaev, A. M.** On a property of $L_p$-spaces on semifinite von Neumann algebras. (Russian. Russian summary) **2001a:46062**
**Buchholz, Artur** Operator Khintchine inequality in non-commutative probability. (English summary) **2001m:46142**

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**Mukhamedov, F. M.** On compactness of some sets of positive maps on von Neumann algebras. (English summary) **2001e:46112**
— On the expansion of quantum quadratic stochastic processes. (Russian) **2001j:46096**
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**Pisier, Gilles** An inequality for $p$-orthogonal sums in non-commutative $L_p$. (English summary) **2001k:46101**
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**Skeide, Michael** A central limit theorem for Bose $\mathcal{Z}$-independent quantum random variables. (English summary) **2001m:46143**
**Tadzhibaev, B. R.** On distribution functions in noncommutative probability theory. (Russian. English and Uzbek summaries) **2001j:46097**

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— (*with* Skeide, Michael) Tensor product systems of Hilbert modules and dilations of completely positive semigroups. (English summary) **2001m:46149**
**Carbone, Raffaella** Exponential $L^2$-convergence of some quantum Markov semigroups related to birth-and-death processes. (English summary) **2001m:81144**
**Chakraborty, Partha Sarathi** (*with* Goswami, Debashish; Sinha, Kalyan B.) A covariant quantum stochastic dilation theory. (English summary) **2001m:46152**
**Choda, Marie** Entropy of Cuntz's canonical endomorphism. (English summary) **2001e:46114**
**Clifton, Rob** (*with* Ruetsche, Laura) Changing the subject: Redei on causal dependence and screening off in relativistic quantum field theory. (English summary) **2001a:81126**
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**Halvorson, Hans** (*with* Clifton, Rob) Generic Bell correlation between arbitrary local algebras in quantum field theory. (English summary) **2001c:81102**
**Lesniewski, Andrew** (*with* Ruskai, Mary Beth) Monotone Riemannian metrics and relative entropy on noncommutative probability spaces. (English summary) **2001g:81108**
**Lindsay, J. Martin** (*with* Wills, Stephen J.) Markovian cocycles on operator algebras adapted to a Fock filtration. (English summary) **2001m:81149**
**Mlotkowski, Wojciech** Free probability on algebras with infinitely many states. (English summary) **2001b:46096**
**Popescu, Gelu** Structure and entropy for positive-definite Toeplitz kernels on free semigroups. (English summary) **2001m:47029**
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**Sarymsakov, B. T.** (*with* Tadzhibaev, B. R.) On the strong law of large numbers in $O^*$-algebras. (Russian. English and Uzbek summaries) **2001k:46108**
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## 46L54 Free probability and free operator algebras

**Akiyama, Mai** (*with* Yoshida, Hiroaki) The orthogonal polynomials for a linear sum of a free family of projections. (English summary) **2001m:46144**
**Anshelevich, Michael** Free stochastic measures via noncrossing partitions. (English summary) **2001k:46102**
**Barnett, C.** (*with* Voliotis, A.) A conditional expectation for the full Fock space. (English summary) **2001m:46145**
**Bercovici, Hari** (*with* Pata, Vittorino) Limit laws for products of free and independent random variables. (English summary) **2001i:46105**
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**Donati-Martin, Catherine** *see* **Capitaine, Mireille, 2001k:46103**
**Dykema, Kenneth J.** (*with* Rădulescu, Florin) Compressions of free products of von Neumann algebras. (English summary) **2001f:46100**
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**Haagerup, Uffe** (*with* Larsen, Flemming) Brown's spectral distribution measure for $R$-diagonal elements in finite von Neumann algebras. (English summary) **2001i:46106**
**Hiai, Fumio** Free products of rings of operators and free probability theory. (Japanese) **2001c:46117**
— (*with* Petz, Dénes) ★ The semicircle law, free random variables and entropy. (English summary) **2001j:46099**
— (*with* Mizuo, Masaru) On free relative entropy. (English summary) (*see* **2001m:46001**)
**Krawczyk, Bernadette** (*with* Speicher, Roland) Combinatorics of free cumulants. (English summary) **2001f:46101**
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**Lehner, Franz** Computing norms of free operators with matrix coefficients. (English summary) **2001j:46100**
**Mizuo, Masaru** *see* **Hiai, Fumio, (2001m:46001)**
**Nica, Alexandru** (*with* Shlyakhtenko, Dimitri; Speicher, Roland) $R$-diagonal elements and freeness with amalgamation. (English summary) **2001m:46146**
**Pata, Vittorino** *see* **Bercovici, Hari, 2001i:46105**
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**Rădulescu, Florin** *see* **Dykema, Kenneth J., 2001f:46100**
**Sakamoto, Takashi** Thoughts concerning restricted amalgamated products of matrix rings. (Japanese) (*see* **2001a:46001**)
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**Stoica, Gheorghe** Weak laws of large numbers in some non-commutative spaces. (English summary) **2001f:46103**
**Thorbjørnsen, S.** Mixed moments of Voiculescu's Gaussian random matrices. (English summary) **2001h:46119**
**Ueda, Yoshimichi** Amalgamated free product over Cartan subalgebra. (English summary) **2001a:46063**
**Voiculescu, Dan** The analogues of entropy and of Fisher's information measure in free probability theory. VI. Liberation and mutual free information. **2001a:46064**
— The coalgebra of the free difference quotient and free probability. **2001d:46096**
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**Simion, Rodica** Noncrossing partitions. (English and French summaries) **2001g:05011**
**Ueda, Yoshimichi** Remarks on free products with respect to non-tracial states. **2001m:46134**
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## 46L55 Noncommutative dynamical systems [see also 28Dxx, 37Kxx, 37Lxx, 54H20]

**Adji, Sriwulan** Semigroup crossed products and the structure of Toeplitz algebras. (English summary) **2001d:46097**
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**Antoine, J.-P.** (*with* Inoue, Atsushi[2]; Trapani, Camillo) $O^*$-dynamical systems and $*$-derivations of unbounded operator algebras. (English summary) **2001a:46065**
**Arveson, William** Interactions in noncommutative dynamics. (English summary) **2001e:46113**
**Banica, Teodor** Symmetries of a generic coaction. (English summary) **2001g:46146**
**Bhat, B. V. Rajarama** (*with* Skeide, Michael) Tensor product systems of Hilbert modules and dilations of completely positive semigroups. (English summary) **2001m:46149**
**Bratteli, Ola** (*with* Jørgensen, Palle E. T.; Kim, Ki Hang; Roush, Fred W.) Non-stationarity of isomorphism between AF algebras defined by stationary Bratteli diagrams. (English summary) **2001k:46104**
**Choda, Marie** Entropy of Cuntz's canonical endomorphism. (English summary) **2001e:46114**
— A $C^*$-dynamical entropy and applications to canonical endomorphisms. (English summary) **2001h:46120**
— Entropy for exact $C^*$-dynamical system. (*see* **2001m:46001**)
**Cohen, Paula B.** A $C^*$-dynamical system with Dedekind zeta partition function and spontaneous symmetry breaking. (English and French summaries) **2001f:46104**
**Deicke, Klaus** Pointwise unitary coactions on $C^*$-algebras with continuous trace. (English summary) **2001d:46098**
**Echterhoff, Siegfried** (*with* Williams, Dana P.) Crossed products by $C_0(X)$-actions. (English summary) **2001b:46105**
— (*with* Kaliszewski, S.; Quigg, John; Raeburn, Iain) Naturality and induced representations. (English summary) **2001j:46101**
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**Goswami, Debashish** (*with* Sinha, Kalyan B.) Minimal quantum dynamical semigroup on a von Neumann algebra. (English summary) **2001m:46150**
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**Inoue, Atsushi[2]** *see* **Antoine, J.-P. et al., 2001a:46065**
**Jørgensen, Palle E. T.** *see* **Bratteli, Ola et al., 2001k:46104**
**Kaliszewski, S.** (*with* Quigg, John) Equivariance and imprimitivity for discrete Hopf $C^*$-coactions. (English summary) **2001i:46107**
— *see also* **Echterhoff, Siegfried et al., 2001j:46101**
**Kim, Ki Hang** *see* **Bratteli, Ola et al., 2001k:46104**
**Kossakowski, A.** (*with* Ohya, Masanori; Watanabe, Noboru) Quantum dynamical entropy for completely positive map. (English summary) **2001k:46105**
**Leichtnam, Eric** (*with* Nistor, Victor) Crossed product algebras and the homology of certain $p$-adic and adélic dynamical systems. (English summary) **2001k:46106**
**Lenz, Daniel H.** Random operators and crossed products. (English summary) **2001b:46108**
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**Matsumoto, Kengo** A simple $C^*$-algebra arising from a certain subshift. (English summary) **2001c:46118**
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## 46L57 Derivations, dissipations and positive semigroups in $C^*$-algebras

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## 46L60 Applications of selfadjoint operator algebras to physics [see also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]

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**Schroer, Bert** The pivotal role of causality in local quantum physics. (English summary) **2001a:81128**
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## 46L65 Quantizations, deformations

**Lust-Piquard, Françoise** Riesz transforms on deformed Fock spaces. (English summary) **2001j:46104**
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**Natsume, Toshikazu** $C^*$-algebraic deformation quantization of closed Riemann surfaces. (English summary) **2001k:46110**
**Park, Chun-Gil** Morita equivalence for noncommutative tori. (English summary) **2001b:46110**
**Proskurin, D. P.** About positiveness of Fock inner product of a certain Wick algebras. (English summary) **2001e:46118**

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**Abadie, Beatriz** The range of traces on quantum Heisenberg manifolds. (English summary) **2001k:46113**
**Carey, Alan L.** (*with* Paolucci, A.; Zhang, Rui Bin) Quantum group actions on the Cuntz algebra. (English summary) **2001m:17011**
**Engliš, Miroslav** Asymptotic behaviour of reproducing kernels, Berezin quantization and mean-value theorems. (English summary) **2001k:32003**
**Kustermans, Johan** A natural extension of a left invariant lower semi-continuous weight. (English summary) **2001j:46094**
**Natsume, Toshikazu** (*with* Nest, Ryszard) Topological approach to quantum surfaces. (English summary) **2001f:58017**
**Nest, Ryszard** *see* **Natsume, Toshikazu, 2001f:58017**
**Paolucci, A.** *see* **Carey, Alan L. et al., 2001m:17011**
**Plebański, Jerzy F.** (*with* Przanowski, Maciej; Turrubiates, Francisco J.) Weyl-Underhill-Emmrich quantization and the Stratonovich-Weyl quantizer. (English summary) **2001c:81088**
**Przanowski, Maciej** *see* **Plebański, Jerzy F. et al., 2001c:81088**
**Pusz, W.** (*with* Woronowicz, Stanisław L.) Representations of quantum Lorentz group on Gelfand spaces. (English summary) **2001m:81136**
**Turrubiates, Francisco J.** *see* **Plebański, Jerzy F. et al., 2001c:81088**
**Weaver, Nik** Sub-Riemannian metrics for quantum Heisenberg manifolds. (English summary) **2001b:46114**
**Woronowicz, Stanisław L.** *see* **Pusz, W., 2001m:81136**
**Zhang, Rui Bin** *see* **Carey, Alan L. et al., 2001m:17011**

## 46L70 Nonassociative selfadjoint operator algebras [see also 46H70, 46K70]

**Bunce, L. J.** (*with* Chu, Cho-Ho; Zalar, Borut) Structure spaces and decomposition in JB*-triples. (English summary) **2001g:46148**
**Chu, Cho-Ho** *see* **Bunce, L. J. et al., 2001g:46148**
**Edwards, C. Martin** (*with* Rüttimann, Gottfried Traugott) Measures on the lattice of closed inner ideals in a spin triple. (English summary) **2001k:46111**
**Jamjoom, F. B. H.** On the tensor products of scattered JC-algebras. (English summary) **2001i:46109**
**Kaïdi, El Amin Mokhtar** (*with* Morales Campoy, Antonio; Rodríguez-Palacios, Ángel) Prime non-commutative $JB^*$-algebras. (English summary) **2001e:46119**
**Martínez-Moreno, Juan** (*with* Peralta, Antonio M.) Separate weak*-continuity of the triple product in dual real JB*-triples. (English summary) **2001h:46123**
**Mathieu, Martin** Lie mappings of $C^*$-algebras. (English summary) **2001c:46121**
**Morales Campoy, Antonio** *see* **Kaïdi, El Amin Mokhtar et al., 2001e:46119**
**Moreno Galindo, Antonio** (*with* Rodríguez-Palacios, Ángel) On the Zelmanovian classification of prime $JB^*$-triples. **2001c:46122**
**Peralta, Antonio M.** (*with* Stachó, László L.) Atomic decomposition of real JBW*-triples. (English summary) **2001m:46154**
— *see also* **Martínez-Moreno, Juan, 2001h:46123**
**Rodríguez-Palacios, Ángel** *see* **Moreno Galindo, Antonio, 2001c:46122** *and* **Kaïdi, El Amin Mokhtar et al., 2001e:46119**
**Rüttimann, Gottfried Traugott** *see* **Edwards, C. Martin, 2001k:46111**
**Stachó, László L.** A counterexample concerning contractive projections of real $JB^*$-triples. (English summary) **2001k:46112**
— *see also* **Peralta, Antonio M., 2001m:46154**
**Wu, Wei[8]** Closed Jordan ideals of AF-algebras. (English and Chinese summaries) **2001j:46105**
**Zalar, Borut** *see* **Bunce, L. J. et al., 2001g:46148**

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**Arzikulov, F. N.** Jordan algebras of abstract measurable operators for JBW-algebras. (Russian. Russian summary) **2001i:47116**
**Aupetit, Bernard** Spectrum-preserving linear mappings between Banach algebras or Jordan-Banach algebras. **2001h:46078**
**Becerra Guerrero, Julio** (*with* Rodríguez-Palacios, Ángel) Transitivity of the norm on Banach spaces having a Jordan structure. (English summary) **2001g:46022**
**Benslimane, Mohamed** (*with* Mesmoudi, Laïla; Rodríguez-Palacios, Ángel) A characterization of commutativity for non-associative normed algebras. **2001i:46084**
**Cabrera García, Miguel** (*with* Moreno Galindo, Antonio; Rodríguez-Palacios, Ángel) Normed versions of the Zel'manov prime theorem: positive results and limits. (English summary) **2001a:46051**
**Chu, Cho-Ho** (*with* Isidro, José María[1]) Manifolds of tripotents in JB*-triples. (English summary) **2001f:58011**
**Isidro, José María[1]** *see* **Chu, Cho-Ho, 2001f:58011**
**Lai, Yi Xin** The multiplier algebras of JC-algebras. (Chinese. English and Chinese summaries) **2001h:46102**
**Loos, Ottmar** Nuclear elements in Banach Jordan pairs. (English summary) **2001g:46112**
**Mackey, Michael T.** The Grassmannian manifold associated to a bounded symmetric domain. **2001h:32035**
**Mesmoudi, Laïla** *see* **Benslimane, Mohamed et al., 2001i:46084**
**Moreno Galindo, Antonio** *see* **Cabrera García, Miguel et al., 2001a:46051**
**Neal, Matthew** (*with* Russo, Bernard) Contractive projections and operator spaces. (English and French summaries) **2001m:46128**
**Rodríguez-Palacios, Ángel** *see* **Cabrera García, Miguel et al., 2001a:46051**; **Becerra Guerrero, Julio, 2001g:46022** *and* **Benslimane, Mohamed et al., 2001i:46084**
**Russo, Bernard** *see* **Neal, Matthew, 2001m:46128**
**Stachó, László L.** Partial Jordan* triples with grid base. **2001b:17042**
**Yoshioka, Akira** Formal deformation of smooth function algebra to an alternative algebra. (English summary) **2001g:53162**

## 46L80 $K$-theory and operator algebras (including cyclic theory) [see also 18F25, 19Kxx, 46M20, 55Rxx, 58J22]

**Abadie, Beatriz** The range of traces on quantum Heisenberg manifolds. (English summary) **2001k:46113**
**Ara, Pere** (*with* Goodearl, Kenneth R.; O'Meara, K. C.; Raphael, Robert M.) $K_1$ of separative exchange rings and $C^*$-algebras with real rank zero. (English summary) **2001m:46155**
**Brown, Lawrence G.** (*with* Pedersen, Gert K.) Extremal $K$-theory and index for $C^*$-algebras. (English summary) **2001m:46156**
**Buyukliev, Nikolay P.** $K$-theory of the $C^*$-algebra of multivariable Wiener-Hopf operators associated with some polyhedral cones in $\mathbb{R}^n$. (English summary) **2001e:46120**
**Cao, Yang[2]** (*with* Fang, Jun Sheng; Jiang, Chun Lan) $K$-group of operator algebras and strongly irreducible decomposition of operators. **2001d:46101**
**Exel, Ruy** (*with* Laca, Marcelo) The $K$-theory of Cuntz-Krieger algebras for infinite matrices. (English summary) **2001c:46123**
**Fang, Jun Sheng** *see* **Cao, Yang[2] et al., 2001d:46101**
**Goodearl, Kenneth R.** *see* **Ara, Pere et al., 2001m:46155**
**Guentner, Erik** (*with* Higson, Nigel; Trout, Jody) Equivariant $E$-theory for $C^*$-algebras. (English summary) **2001c:46124**
**Higson, Nigel** *see* **Guentner, Erik et al., 2001c:46124**
**Jiang, Chun Lan** *see* **Cao, Yang[2] et al., 2001d:46101**
**Kodaka, Kazunori** The positive cones of $K_0$-groups of crossed products associated with Furstenberg transformations on the 2-torus. (English summary) **2001b:46111**
**Kosyak, A. V.** (*with* Zekri, Richard) Anti-Wick symbols on infinite tensor product spaces. (English summary) **2001e:46121**
**Kucerovsky, Dan** A lifting theorem giving an isomorphism of $KK$-products in bounded and unbounded $KK$-theory. (English summary) **2001j:46106**
**Laca, Marcelo** *see* **Exel, Ruy, 2001c:46123**
**Nagy, Gabriel** Bivariant $K$-theories for $C^*$-algebras. (English summary) **2001b:46112**
**O'Meara, K. C.** *see* **Ara, Pere et al., 2001m:46155**
**Park, Efton** (*with* Trout, Jody) Representable $E$-theory for $C_0(X)$-algebras. (English summary) **2001m:46157**
**Pasnicu, Cornel** Shape equivalence, nonstable $K$-theory and $AH$ algebras. (English summary) **2001d:46102**
**Pavlov, A. A.** Normed groups and their application to noncommutative differential geometry. (Russian. English and Russian summaries) **2001m:46158**
**Pedersen, Gert K.** *see* **Brown, Lawrence G., 2001m:46156**
**Perera, Francesc** Lifting units modulo exchange ideals and $C^*$-algebras with real rank zero. (English summary) **2001g:46149**
**Popescu, Radu Viorel** $E$-théorie équivariante et groupoïdes. (English and French summaries) [Equivariant $E$-theory and groupoids] **2001h:46124**
**Putnam, Ian F.** On the $K$-theory of $C^*$-algebras of principal groupoids. (English summary) **2001b:46113**
— The ordered $K$-theory of $C^*$-algebras associated with substitution tilings. (English summary) **2001m:46159**
**Raphael, Robert M.** *see* **Ara, Pere et al., 2001m:46155**
**Schafer, James A.** The Bass conjecture and group von Neumann algebras. (English summary) **2001g:46150**
**Szymański, Wojciech** Bimodules for Cuntz-Krieger algebras of infinite matrices. (English summary) **2001g:46151**
**Thomsen, Klaus** $KK$-equivalence and continuous bundles of $C^*$-algebras. (English summary) **2001j:46107**
**Troitskiĭ, E. V.** Functionals on $l_2(A)$ and theorems of Kuiper and Dixmier-Douady types for $C^*$-Hilbert modules. (Russian) **2001a:46067**
— The Thom isomorphism in the "twice" equivariant $K$-theory of $C^*$-fibrations. (Russian. English and Russian summaries) **2001j:46108**
**Trout, Jody** *see* **Guentner, Erik et al., 2001c:46124** *and* **Park, Efton, 2001m:46157**
**Tu, Jean-Louis** The Baum-Connes conjecture for groupoids. (English summary) **2001j:46109**
**Walters, Samuel G.** On the irrational quartic algebra. (French summary) **2001c:46125**
**Xue, Yifeng** The general stable rank in nonstable $K$-theory. (English summary) **2001h:46125**
**Zekri, Richard** *see* **Kosyak, A. V., 2001e:46121**

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**Anantharaman-Delaroche, C.** (*with* Renault, Jean N.) ★ Amenable groupoids. (English summary) **2001m:22005**
**Ara, Pere** (*with* Pedersen, Gert K.; Perera, Francesc) An infinite analogue of rings with stable rank one. (English summary) **2001g:16018**
**Baum, Paul** (*with* Connes, Alain) Geometric $K$-theory for Lie groups and foliations. **2001i:19006**

— (*with* Millington, Stephen; Plymen, Roger) A proof of the Baum-Connes conjecture for reductive adelic groups. (English and French summaries) **2001m:19011**
**Brodzki, Jacek** (*with* Plymen, Roger) Geometry of the smooth dual of GL($n$). (English and French summaries) **2001i:22021**
**Carey, Richard** (*with* Pincus, Joel) Perturbation vectors. (English summary) **2001e:47048**
**Chabert, Jérôme** Baum-Connes conjecture for some semi-direct products. (English summary) **2001b:19004**
**Connes, Alain** *see* **Baum, Paul, 2001i:19006**
**Dadarlat, Marius** Approximate unitary equivalence and the topology of Ext($A$, $B$). (English summary) **2001j:46080**
**Deaconu, Valentin** Continuous graphs and $C^*$-algebras. (English summary) **2001g:46123**
**Djoudi, A.** About Kasparov's technical theorem. (English summary) **2001i:46087**
**Fang, Xiao Chun** (*with* Qiu, Bo Zhou) Realization in $K_0$-group of projections from the algebra of matrix functions on higher-dimensional cubes. (Chinese. English and Chinese summaries)
**(Germain, E.)** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Gjerde, Richard** (*with* Johansen, Ørjan) $C^*$-algebras associated to non-homogeneous minimal systems and their $K$-theory. **2001e:46104**
**Gong, Guihua** (*with* Lin, Huaxin) Classification of homomorphisms from $C(X)$ to simple $C^*$-algebras of real rank zero. (English summary) **2001i:46088**
— (*with* Jiang, Xinhui; Su, Hongbing) Obstructions to $\mathcal{Z}$-stability for unital simple $C^*$-algebras. (English summary) **2001k:46086**
— (*with* Yu, Guoliang) Volume growth and positive scalar curvature. **2001m:53055**
— (*with* Lin, Huaxin) Almost multiplicative morphisms and $K$-theory. (English summary) **2001j:46081**
**Guo, Kun Yu** Indices of Toeplitz tuples on pseudoregular domains. **2001g:47046**
**Higson, Nigel** Bivariant $K$-theory and the Novikov conjecture. (English summary) **2001k:19009**
**Jiang, Xinhui** *see* **Gong, Guihua et al., 2001k:46086**
**Johansen, Ørjan** *see* **Gjerde, Richard, 2001e:46104**
**Kaminker, Jerome** (*with* Perera, Vicumpriya) Type II spectral flow and the eta invariant. (English summary) **2001h:58033**
**Kandelaki, Tamaz** $KK$-theory as the $K$-theory of $C^*$-categories. (English summary) **2001m:19012**
**Karoubi, Max** Rapport sur la $K$-théorie (1956–1997). [Report on $K$-theory (1956–1997)] **2001h:19001**
**Kellendonk, Johannes** (*with* Putnam, Ian F.) Tilings, $C^*$-algebras, and $K$-theory. (English summary) **2001m:46153**
**Keswani, Navin** Von Neumann eta-invariants and $C^*$-algebra $K$-theory. (English summary) **2001k:58043**
— Relative eta-invariants and $C^*$-algebra $K$-theory. (English summary) **2001i:58046**
**Khimshiashvili, G.** Homotopy classes of abstract elliptic transmission problems. (English summary) **2001m:46160**
**Kirchberg, Eberhard** (*with* Wassermann, Simon) Permanence properties of $C^*$-exact groups. (English summary) **2001i:46089**
— Das nicht-kommutative Michael-Auswahlprinzip und die Klassifikation nicht-einfacher Algebren. (English summary) [The noncommutative Michael selection principle and the classification of non-simple algebras] **2001m:46161**
— (*with* Phillips, N. Christopher) Embedding of exact $C^*$-algebras in the Cuntz algebra $\mathcal{O}_2$. (English summary) **2001d:46086a**
**Kodaka, Kazunori** (*with* Osaka, Hiroyuki) FS-property for $C^*$-algebras. (English summary) **2001m:46116**
**Larsen, Flemming** *see* **Rørdam, Mikael et al., 2001g:46001**
**Laustsen, N.** *see* **Rørdam, Mikael et al., 2001g:46001**
**Lazarov, C.** Transverse index and periodic orbits. **2001i:58044**
**Leichtnam, Eric** (*with* Nistor, Victor) Crossed product algebras and the homology of certain $p$-adic and adélic dynamical systems. (English summary) **2001k:46106**
**Lin, Huaxin** Homomorphisms from $C^*$-algebras of continuous trace. (English summary) **2001b:46088**
— *see also* **Gong, Guihua, 2001i:46088** *and* **2001j:46081**
**Macho-Stadler, Marta** Foliations, groupoids and Baum-Connes conjecture. (English and Russian summaries) **2001h:58030**
**Manuilov, V. M.** On $C^*$-algebras associated with asymptotic homomorphisms. (Russian. Russian summary) **2001m:46121**
**Matsumoto, Kengo** Stabilized $C^*$-algebras constructed from symbolic dynamical systems. (English summary) **2001e:46115**
**Meyer, Ralf** Equivariant Kasparov theory and generalized homomorphisms. (English summary) **2001m:19013**
**Millington, Stephen** *see* **Baum, Paul et al., 2001m:19011**
**Milnes, Paul** (*with* Walters, Samuel G.) Discrete cocompact subgroups of the four-dimensional nilpotent connected Lie group and their group $C^*$-algebras. (English summary) **2001m:22021**
**Nagisa, Masaru** *see* **Osaka, Hiroyuki, (2001d:46003)**
**Nakamura, Hideki[1]** A Rohlin type theorem for automorphisms of certain purely infinite $C^*$-algebras. (English summary) **2001g:46144**
**Nielsen, Karen Egede** Homomorphisms into simple limits of circle algebras. **2001d:46091**
**Nikolaev, Igor V.** An invariant of minimal flows coming from the $K_0$-group of a crossed product $C^*$-algebra. (English summary) **2001j:37016**
**Nistor, Victor** *see* **Leichtnam, Eric, 2001k:46106**
**Osaka, Hiroyuki** (*with* Nagisa, Masaru) Ranks of algebras of continuous $C^*$-algebra valued functions. (*see* **2001d:46003**)
— Stable rank for a pair of $C^*$-algebras. (*see* **2001f:46001**)
— *see also* **Kodaka, Kazunori, 2001m:46116**
**Oyono-Oyono, Hervé** Baum-Connes conjecture and extensions. **2001m:19014**
**Pavlov, A. A.** The functor $N_0$ over the category of von Neumann algebras and its relation to operator $K$-theory. (Russian. Russian summary) **2001g:46139**
**Pedersen, Gert K.** *see* **Ara, Pere et al., 2001g:16018**
**Perera, Francesc** *see* **Ara, Pere et al., 2001g:16018**
**Perera, Vicumpriya** *see* **Kaminker, Jerome, 2001h:58033**
**Phillips, N. Christopher** A classification theorem for nuclear purely infinite simple $C^*$-algebras. (English summary) **2001d:46086b**
— *see also* **Kirchberg, Eberhard, 2001d:46086a**
**Pincus, Joel** *see* **Carey, Richard, 2001e:47048**
**Plymen, Roger** *see* **Brodzki, Jacek, 2001i:22021** *and* **Baum, Paul et al., 2001m:19011**
**Putnam, Ian F.** *see* **Kellendonk, Johannes, 2001m:46153**
**Qiu, Bo Zhou** *see* **Fang, Xiao Chun**
**Renault, Jean N.** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Rørdam, Mikael** (*with* Larsen, Flemming; Laustsen, N.) ★ An introduction to $K$-theory for $C^*$-algebras. (English summary) **2001g:46001**
**(Skandalis, Georges)** *see* **Anantharaman-Delaroche, C., 2001m:22005**
**Su, Hongbing** *see* **Gong, Guihua et al., 2001k:46086**
**Sudo, Takahiro** Stable rank of crossed products by **R** or **T**. (Japanese) (*see* **2001d:46003**)
**Sun, Shun Hua** *see* **Yan, Cong Quan, 2001m:46140**
**Thomsen, Klaus** Equivariant $KK$-theory and $C^*$-extensions. (English summary) **2001j:19004**
**Tian, Guohui** A periodicity theorem in $K$-theory for finite covariant systems. (English summary) **2001c:46128**
**Walters, Samuel G.** Chern characters of Fourier modules. (English summary) **2001d:46100**
— *see also* **Milnes, Paul, 2001m:22021**
**Wassermann, Simon** *see* **Kirchberg, Eberhard, 2001i:46089**
**Xu, Qing Xiang** The minimal closed non-trivial ideals of Toeplitz algebras on discrete groups. (English summary) **2001h:47122**
**Yan, Cong Quan** (*with* Sun, Shun Hua) Automorphism group on $C(X) \otimes \mathcal{A}$. (Chinese. English and Chinese summaries) **2001m:46140**
**Yu, Guoliang** *see* **Gong, Guihua, 2001m:53055**

## 46L85 Noncommutative topology [see also 58B32, 58B34, 58J22]

**Blackadar, Bruce** (*with* Kirchberg, Eberhard) Generalized inductive limits and quasidiagonality. (English summary) **2001j:46110**
**Coniglio, Marcelo E.** (*with* Miraglia, Francisco) Non-commutative topology and quantales. (English summary) **2001h:46126**
**Djoudi, A.** About Tietze's non commutative theorem. (English summary) **2001k:46114**
**Đỗ Ngọc Diệp** ★ Methods of noncommutative geometry for group $C^*$-algebras. (English summary) **2001g:46152**
**Khimshiashvili, G.** Homotopy classes of abstract elliptic transmission problems. (English summary) **2001m:46160**
**Kirchberg, Eberhard** Das nicht-kommutative Michael-Auswahlprinzip und die Klassifikation nicht-einfacher Algebren. (English summary) [The noncommutative Michael selection principle and the classification of non-simple algebras] **2001m:46161**
— *see also* **Blackadar, Bruce, 2001j:46110**
**Miraglia, Francisco** *see* **Coniglio, Marcelo E., 2001h:46126**
**Roe, John** Surgery and $C^*$-algebras. **2001f:46108**

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**Balogun, Bola O.** Pro-$C^*$-algebras and non-commutative topology. (English summary) **2001d:46084**
**Connes, Alain** (*with* Moscovici, Henri) Cyclic cohomology and Hopf algebra symmetry [1800488]. (English summary) (*see* **2001h:00035**)
**Dadarlat, Marius** (*with* McClure, James) When are two commutative $C^*$-algebras stably homotopy equivalent? **2001k:46080**
**Dranishnikov, Alexander** (*with* Januszkiewicz, Tadeusz) Every Coxeter group acts amenably on a compact space. (English summary) **2001k:20082**
**Fang, Xiao Chun** The realization of multiplier Hilbert bimodule on bidual space and Tietze extension theorem. (English summary) **2001h:46108**
**Guentner, Erik** (*with* Higson, Nigel; Trout, Jody) Equivariant $E$-theory for $C^*$-algebras. (English summary) **2001c:46124**
**Higson, Nigel** Bivariant $K$-theory and the Novikov conjecture. (English summary) **2001k:19009**
— *see also* **Guentner, Erik et al., 2001c:46124**
**Januszkiewicz, Tadeusz** *see* **Dranishnikov, Alexander, 2001k:20082**
**McClure, James** *see* **Dadarlat, Marius, 2001k:46080**
**Moscovici, Henri** *see* **Connes, Alain, (2001h:00035)**
**Park, Efton** Isometries of unbounded Fredholm modules over manifolds. (English summary) **2001m:46132**
**Pasnicu, Cornel** Shape equivalence, nonstable $K$-theory and $AH$ algebras. (English summary) **2001d:46102**
**Putnam, Ian F.** On the $K$-theory of $C^*$-algebras of principal groupoids. (English summary) **2001b:46113**
**Raeburn, Iain** (*with* Sims, Aidan; Williams, Dana P.) Twisted actions and obstructions in group cohomology. **2001k:46107**
**Sims, Aidan** *see* **Raeburn, Iain et al., 2001k:46107**
**Thomsen, Klaus** $KK$-equivalence and continuous bundles of $C^*$-algebras. (English summary) **2001j:46107**
**Trout, Jody** *see* **Guentner, Erik et al., 2001c:46124**
**Williams, Dana P.** *see* **Raeburn, Iain et al., 2001k:46107**

## 46L87 Noncommutative differential geometry [see also 58B32, 58B34, 58J22]

**Andruchow, Esteban** (*with* Corach, Gustavo; Stojanoff, Demetrio) Projective spaces of a $C^*$-algebra. (English summary) **2001g:46153**
**Boo, Deok-Hoon** (*with* Oh, Sei-Qwon; Park, Chun-Gil) $C^*$-algebras associated with lens spaces. (English summary) **2001h:46127**
— (*with* Park, Chun-Gil) The fundamental group of the automorphism group of a noncommutative torus. (English summary) **2001k:46115**
**Corach, Gustavo** *see* **Andruchow, Esteban et al., 2001g:46153**
**Ellwood, David Alexandre** A new characterisation of principal actions. (English summary) **2001c:46126**
**Higuchi, Hitoshi** Moduli spaces of noncommutative tori. (Japanese) (*see* **2001m:46001**)

**Kahng, Byung-Jay** Non-compact quantum groups arising from Heisenberg type Lie bialgebras. (English summary) **2001j:46111**
**Landi, Giovanni** (*with* Lizzi, Fedele; Szabo, Richard J.) From large $N$ matrices to the noncommutative torus. (English summary) **2001m:46162**
**Lizzi, Fedele** *see* **Landi, Giovanni et al., 2001m:46162**
**Oh, Sei-Qwon** *see* **Boo, Deok-Hoon et al., 2001h:46127**
**Park, Chun-Gil** *see* **Boo, Deok-Hoon et al., 2001h:46127** *and* **2001k:46115**
**Rieffel, Marc A.** Metrics on state spaces. (English summary) **2001g:46154**
**Sheu, Albert Jeu-Liang** Groupoid approach to quantum projective spaces. (English summary) **2001a:46068**
**Stojanoff, Demetrio** *see* **Andruchow, Esteban et al., 2001g:46153**
**Szabo, Richard J.** *see* **Landi, Giovanni et al., 2001m:46162**
**Weaver, Nik** Sub-Riemannian metrics for quantum Heisenberg manifolds. (English summary) **2001b:46114**

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**Andruchow, Esteban** (*with* Varela, Alejandro) Weight centralizer expectations with finite index. (English summary) **2001a:46060**
**Baum, Paul** (*with* Connes, Alain) Geometric $K$-theory for Lie groups and foliations. **2001i:19006**
**Buyalo, S. V.** Measurability of self-similar spectral geometries. (Russian. Russian summary) **2001i:58059**
**Calow, Dirk** (*with* Matthes, Rainer) Covering and gluing of algebras and differential algebras. (English summary) **2001h:58009**
**Carey, Alan L.** (*with* Phillips, John; Sukochev, Fedor A.) On unbounded $p$-summable Fredholm modules. (English summary) **2001h:46107**
**Connes, Alain** (*with* Kreimer, Dirk) Lessons from quantum field theory: Hopf algebras and spacetime geometries. (English summary) **2001b:81078**
— (*with* Moscovici, Henri) Cyclic cohomology and Hopf algebra symmetry [1800488]. (English summary) (*see* **2001h:00035**)
— A short survey of noncommutative geometry. (English summary) **2001m:58016**
— *see also* **Baum, Paul, 2001i:19006**
**Djemai, A. E. F.** (*with* Smail, H.) $Z_N$-graded noncommutative differential calculus. (English summary) **2001j:58013**
**Dupré, Maurice J.** (*with* Glazebrook, James F.) Infinite dimensional manifold structures on principal bundles. (English summary) **2001f:58018**
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**Figueroa, Héctor** *see* **Gracia-Bondía, José M. et al., 2001h:58038**
**Fiore, Gaetano** (*with* Madore, John) Reality conditions on quantum Euclidean planes. (English summary) **2001g:58013**
**Fröhlich, Jürg** The electron is inexhaustible. **2001c:81231**
— (*with* Grandjean, O.; Recknagel, Andreas) Supersymmetric quantum theory and non-commutative geometry. (English summary) **2001d:58025**
**Frohman, Charles** (*with* Gelca, Răzvan) Skein modules and the noncommutative torus. (English summary) **2001b:57014**
**Gelca, Răzvan** *see* **Frohman, Charles, 2001b:57014**
**Glazebrook, James F.** *see* **Dupré, Maurice J., 2001f:58018**
**Gorokhovsky, Alexander** Characters of cycles, equivariant characteristic classes and Fredholm modules. (English summary) **2001f:58055**
**Gracia-Bondía, José M.** (*with* Várilly, Joseph C.; Figueroa, Héctor) ★ Elements of noncommutative geometry. (English summary) **2001h:58038**
**Grandjean, O.** *see* **Fröhlich, Jürg et al., 2001d:58025**
**Grosse, Harald** (*with* Strohmaier, Alexander) Noncommutative geometry and the regularization problem of 4D quantum field theory. (English summary) **2001k:58053**
**Guido, Daniele** (*with* Isola, Tommaso) Singular traces, dimensions and Novikov-Shubin invariants. (English summary) **2001i:58060**
**Guo, Han Ying** (*with* Wu, Ke[1]; Zhang, Wei[6]) Noncommutative differential calculus on discrete abelian groups and its applications. (English summary) **2001m:81137**
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**Iochum, Bruno** (*with* Krajewski, Thomas; Martinetti, Pierre) Distances in finite spaces from noncommutative geometry. (English summary) **2001m:58061**
**Isola, Tommaso** *see* **Guido, Daniele, 2001i:58060**
**Kawamura, Katsunori** Fibrations associated with $*$-homomorphisms of $C^*$-algebras. (*see* **2001m:46001**)
**Krajewski, Thomas** *see* **Iochum, Bruno et al., 2001m:58061**
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**Kustermans, Johan** (*with* Tuset, Lars) A survey of $C^*$-algebraic quantum groups. I. **2001i:46090**
**Labuschagne, L. E.** Linear mappings that preserve the derivational structure of $C^*$-algebras. (English summary) **2001h:46122**
**Madore, John** *see* **Fiore, Gaetano, 2001g:58013**
**Martinetti, Pierre** *see* **Iochum, Bruno et al., 2001m:58061**
**Matthes, Rainer** *see* **Calow, Dirk, 2001h:58009**
**Moscovici, Henri** *see* **Connes, Alain, (2001h:00035)**
**Natsume, Toshikazu** (*with* Nest, Ryszard) Topological approach to quantum surfaces. (English summary) **2001f:58017**
**Nest, Ryszard** *see* **Natsume, Toshikazu, 2001f:58017**
**Park, Chun-Gil** Morita equivalence for noncommutative tori. (English summary) **2001b:46110**
**Park, Efton** Isometries of unbounded Fredholm modules over manifolds. (English summary) **2001m:46132**
**Phillips, John** *see* **Carey, Alan L. et al., 2001h:46107**
**Recknagel, Andreas** *see* **Fröhlich, Jürg et al., 2001d:58025**
**Roe, John** Surgery and $C^*$-algebras. **2001f:46108**
— *see also* **Higson, Nigel, 2001h:57043**
**Schmitt, Frédéric** Une version quantique du théorème de van Est. (English and French summaries) [A quantum version of van Est's theorem] **2001a:17025**
**Smail, H.** *see* **Djemai, A. E. F., 2001j:58013**
**Strohmaier, Alexander** *see* **Grosse, Harald, 2001k:58053**
**Sukochev, Fedor A.** *see* **Carey, Alan L. et al., 2001h:46107**
**Tu, Jean-Louis** The Baum-Connes conjecture for groupoids. (English summary) **2001j:46109**
**Tuset, Lars** *see* **Kustermans, Johan, 2001i:46090**
**Varela, Alejandro** *see* **Andruchow, Esteban, 2001a:46060**
**Várilly, Joseph C.** *see* **Gracia-Bondía, José M. et al., 2001h:58038**
**Wu, Ke[1]** *see* **Guo, Han Ying et al., 2001m:81137**
**Zhang, Wei[6]** *see* **Guo, Han Ying et al., 2001m:81137**

## 46L89 Other "noncommutative" mathematics based on $C^*$-algebra theory [see also 58B32, 58B34, 58J22]

**Banica, Teodor** Hopf algebras and subfactors associated to vertex models. (English summary) **2001a:46069**
— Fusion rules for representations of compact quantum groups. **2001g:46155**
**Blanchard, Etienne** On finiteness of the number of $N$-dimensional Hopf $C^*$-algebras. **2001i:46110**
**Kraus, Jon** (*with* Ruan, Zhong-Jin) Approximation properties for Kac algebras. (English summary) **2001b:46115**
**Ruan, Zhong-Jin** *see* **Kraus, Jon, 2001b:46115**
**Song, Hai Zhou** Representations of Hermitian bilinear functionals on operator algebras. (Chinese. English and Chinese summaries) **2001e:46122**

Items with secondary classifications in 46L89

**Bichon, Julien** Galois reconstruction of finite quantum groups. (English summary) **2001f:16071**
**Cannas da Silva, Ana** (*with* Weinstein, Alan) ★ Geometric models for noncommutative algebras. **2001m:58013**
**Filk, Thomas** Connes' distance function for commutative and noncommutative graphs. (English summary) **2001f:58016**
**Guo, Han Ying** (*with* Wu, Ke[1]; Wang, ShangHu; Wang, Shi Kun; Wei, GongMin) Noncommutative differential calculus approach to discrete symplectic schemes on regular lattice. (English summary) **2001m:58017**
**Kustermans, Johan** (*with* Tuset, Lars) A survey of $C^*$-algebraic quantum groups. I. **2001i:46090**
— (*with* Tuset, Lars) A survey of $C^*$-algebraic quantum groups. II. **2001i:46091**
— A natural extension of a left invariant lower semi-continuous weight. (English summary) **2001j:46094**
— (*with* Vaes, Stefaan) The operator algebra approach to quantum groups. (English summary) **2001m:46118**
**Labuschagne, L. E.** Linear mappings that preserve the derivational structure of $C^*$-algebras. (English summary) **2001h:46122**
**Lafforgue, Vincent** A proof of property (RD) for cocompact lattices of $SL(3, \mathbf{R})$ and $SL(3, \mathbf{C})$. (English summary) **2001g:22020**
**Quaegebeur, J.** (*with* Verding, J.) A construction for weights on $C^*$-algebras. Dual weights for $C^*$-crossed products. (English summary) **2001d:46099**
**Recht, Lázaro** Differential geometry in the space of positive operators. (Spanish. Spanish summary) **2001m:58010**
**Tomiyama, Jun** Structure of ideals and isomorphisms of $C^*$-crossed products by single homeomorphism. **2001e:46117**
**Tuset, Lars** *see* **Kustermans, Johan, 2001i:46090** *and* **2001i:46091**
**Vaes, Stefaan** *see* **Kustermans, Johan, 2001m:46118**
**Verding, J.** *see* **Quaegebeur, J., 2001d:46099**
**Wang, ShangHu** *see* **Guo, Han Ying et al., 2001m:58017**
**Wang, Shi Kun** *see* **Guo, Han Ying et al., 2001m:58017**
**Wei, GongMin** *see* **Guo, Han Ying et al., 2001m:58017**
**Weinstein, Alan** *see* **Cannas da Silva, Ana, 2001m:58013**
**Wu, Ke[1]** *see* **Guo, Han Ying et al., 2001m:58017**

## 46L99 None of the above, but in this section

**El-Dean, A. H. Nour** *see* **Gouda, Y. Gh., 2001e:46123**
**Eom, Myoung-Hoe** (*with* Kye, Seung-Hyeok) Duality for positive linear maps in matrix algebras. (English summary) **2001a:46070**
**Gouda, Y. Gh.** (*with* El-Dean, A. H. Nour) On the reflexive and dihedral cohomology of stable $C^*$-algebras. (English and Arabic summaries) **2001e:46123**
**Itoh, Takashi[1]** (*with* Nagisa, Masaru) Schur products and extended Haagerup tensor products. (Japanese) (*see* **2001f:46001**)
**Kurose, Hideki** Quantum doubles of Hopf $*$-algebras. (Japanese) (*see* **2001a:46001**)
**Kye, Seung-Hyeok** *see* **Eom, Myoung-Hoe, 2001a:46070**
**Nagisa, Masaru** *see* **Itoh, Takashi[1], (2001f:46001)**
**Ôta, Schôichi** Some classes of $q$-deformed operators. (Japanese) (*see* **2001d:46003**)

Items with secondary classifications in 46L99

**Agrawal, Sushama** (*with* Kulkarni, S. H.) Dual spaces of quaternion normed linear spaces and reflexivity. (English summary) **2001k:46013**
**Antoine, J.-P.** (*with* Inoue, Atsushi[2]; Ogi, Hidekazu) Standard generalized vectors and $*$-automorphism groups of partial $O^*$-algebras. (English summary) **2001e:47110**
**Arai, Takahiro** *see* **Ishikawa, Shiro et al., 2001i:93005**
**Birbas, D. G.** On symmetric algebras. **2001e:46087**
**Böttcher, Albrecht** (*with* Grudskiĭ, Sergeĭ M.) ★ Toeplitz matrices, asymptotic linear algebra, and functional analysis. (English summary) **2001g:47043**
**Busakhla, N. Yu.** Measurable bundles of Dedekind logics. (Russian. English and Uzbek summaries) **2001k:03144**
— Decomposition of Dedekind logics into a measurable bundle. (Russian. English and Uzbek summaries) **2001k:03145**
— Measurable bundles of homomorphisms of Dedekind logics. (Russian. English and Uzbek summaries) **2001k:03146**

**Cignoli, Roberto L. O.** (*with* D'Ottaviano, Itala Maria Loffredo; Mundici, Daniele) ★ Algebraic foundations of many-valued reasoning. (English summary) **2001j:03114**
**Danilenko, A. I.** Point realization of Boolean actions of countable inductive limits of locally compact groups. (English, Russian and Ukrainian summaries) **2001d:28009**
**Dong, Zhe** (*with* Lu, Shi Jie) Disjoint-diagonal ideals of closed maximal triangular algebras. (Chinese. English and Chinese summaries) **2001d:47115**
**D'Ottaviano, Itala Maria Loffredo** *see* **Cignoli, Roberto L. O. et al., 2001j:03114**
**Esslamzadeh, G. H.** Duals and topological center of a class of matrix algebras with applications. (English summary) **2001b:43005**
**Grigorchuk, Rostislav I.** (*with* Linnell, Peter A.; Schick, Thomas; Żuk, Andrzej) On a question of Atiyah. (English and French summaries) **2001m:57050**
**Grudskiĭ, Sergei M.** *see* **Böttcher, Albrecht, 2001g:47043**
**Inoue, Atsushi[2]** (*with* Karwowski, Witold; Ogi, Hidekazu) Standard weights on algebras of unbounded operators. (English summary) **2001f:47115**
— *see also* **Antoine, J.-P. et al., 2001e:47110**
**Ishikawa, Shiro** (*with* Arai, Takahiro; Takamura, Hiroki) A dynamical system theoretical approach to Newtonian mechanics. (English summary) **2001i:93005**
**Junghenn, Hugo Dieter** (*with* Milnes, Paul) Analysis on a discrete 6-dimensional nilpotent group. (English summary) **2001d:22004**
**Kalutskiĭ, S.** On ∗-wild algebras. (English summary) **2001c:47084**
**Karwowski, Witold** *see* **Inoue, Atsushi[2] et al., 2001f:47115**
**Kawamura, Katsunori** Infinitesimal Takesaki duality of Hamiltonian vector fields on a symplectic manifold. (English summary) **2001m:53142**
**Kulkarni, S. H.** *see* **Agrawal, Sushama, 2001k:46013**
**Lambert, Alan** Conditional expectations generating the commutants of subalgebras of $L^\infty$. (English summary) **2001i:47057**
**Linnell, Peter A.** *see* **Grigorchuk, Rostislav I. et al., 2001m:57050**
**Lu, Shi Jie** *see* **Dong, Zhe, 2001d:47115**
**Milnes, Paul** *see* **Junghenn, Hugo Dieter, 2001d:22004**
**Mundici, Daniele** *see* **Cignoli, Roberto L. O. et al., 2001j:03114**
**Murphy, Gerard J.** Invariant ideals in Toeplitz algebras. (English summary) **2001j:47090**
**Nizhnik, Leonid P.** (*with* Turovskaya, Lyudmila) Representations of double commutator by matrix-differential operators. (English summary) **2001e:47043**
**Ogi, Hidekazu** *see* **Antoine, J.-P. et al., 2001e:47110** *and* **Inoue, Atsushi[2] et al., 2001f:47115**
**Pasnicu, Cornel** Extensions of AH algebras with the ideal property. (English summary) **2001c:46112**
**Pavel, Liliana** Induced representations of hypergroups and positive definite measures. (English and French summaries) **2001i:22009**
**Rustad, Alf Birger** Unbounded quasi-integrals. (English summary) **2001c:28024**
**Sakamoto, Takashi** Thoughts concerning restricted amalgamated products of matrix rings. (Japanese) (*see* **2001a:46001**)
**Salinas, Norberto** (*with* Velasco, Maria Victoria) Normal essential eigenvalues in the boundary of the numerical range. (English summary) **2001j:47003**
**Schick, Thomas** *see* **Grigorchuk, Rostislav I. et al., 2001m:57050**
**Song, Hai Zhou** Representations of Hermitian bilinear functionals on operator algebras. (Chinese. English and Chinese summaries) **2001e:46122**
**Takamura, Hiroki** *see* **Ishikawa, Shiro et al., 2001i:93005**
**Turovskaya, Lyudmila** *see* **Nizhnik, Leonid P., 2001e:47043**
**Velasco, Maria Victoria** *see* **Salinas, Norberto, 2001j:47003**
**Voiculescu, Dan** A note on cyclic gradients. **2001k:16065**
**Żuk, Andrzej** *see* **Grigorchuk, Rostislav I. et al., 2001m:57050**

## 46Mxx Methods of category theory in functional analysis [see also 18–XX]

Items with secondary classifications in 46Mxx

**(Khelemskiĭ, A. Ya.)** *see* **Topological homology, 2001c:46001**

Items listed otherwise than by author

**Topological homology** ★ Topological homology. **2001c:46001**

## 46M05 Tensor products [see also 46A32, 46B28, 47A80]

Items with secondary classifications in 46M05

**Ansemil, José M.** (*with* Blasco, Fernando; Ponte, Socorro) (BB) properties on Fréchet spaces. (English summary) **2001f:46007**
**Aristov, O. Yu.** On the definition of a flat operator module. (English summary) **2001c:46090**
**Bhattacharya, D. K.** (*with* Roy, Tapan Kumar[2]) Tensor product and $l$-two paranormed structures. (English summary) **2001d:46011**
**Blasco, Fernando** *see* **Ansemil, José M. et al., 2001f:46007**
**Boca, Florin P.** A note on full free product $C^*$-algebras, lifting and quasidiagonality. (English summary) **2001h:46112**
**Brückler, Franka Miriam** Tensor products of $C^*$-algebras, operator spaces and Hilbert $C^*$-modules. (English summary) **2001c:46113**
**Defant, Andreas** (*with* Peris, Alfredo) Transfer arguments for spaces of operators and tensor products. (English summary) **2001c:46004**
— (*with* Michels, Carsten) A complex interpolation formula for tensor products of vector-valued Banach function spaces. (English summary) **2001d:46103**
**Floret, Klaus** Natural norms on symmetric tensor products of normed spaces. (English summary) **2001g:46038**
**Hayashi, Tomohiro[2]** (*with* Yamagami, Shigeru) Amenable tensor categories and their realizations as AFD bimodules. (English summary) **2001d:46092**
**Heinrichs, Wolf-Dieter** The density condition in projective tensor products. (English summary) **2001b:46003**
**Itoh, Takashi[1]** (*with* Nagisa, Masaru) Schur products and extended Haagerup tensor products. (Japanese) (*see* **2001f:46001**)
**Jaming, Philippe** (*with* Moran, William) Tensor products and $p$-induction of representations on Banach spaces. (English summary) **2001g:22008**
**Kim, Yu. E.** The tensor product operator in Lorentz-Zygmund spaces. (Russian. English and Russian summaries)
**Litvinov, G. L.** (*with* Maslov, Viktor P.; Shpiz, G. B.) Tensor products of idempotent semimodules. An algebraic approach. (Russian. Russian summary) **2001g:46164**
**Maslov, Viktor P.** *see* **Litvinov, G. L. et al., 2001g:46164**
**Michels, Carsten** *see* **Defant, Andreas, 2001d:46103**
**Moran, William** *see* **Jaming, Philippe, 2001g:22008**
**Mozo Fernández, Jorge** Topological tensor products and asymptotic developments. (English and French summaries) **2001d:46040**
**Muhly, Paul S.** (*with* Solel, Baruch) On quotients of tensor algebras and their $C^*$-envelopes. (English summary) **2001f:46087**
**Nagisa, Masaru** *see* **Itoh, Takashi[1], (2001f:46001)**
**Peris, Alfredo** *see* **Defant, Andreas, 2001c:46004**
**Ponte, Socorro** *see* **Ansemil, José M. et al., 2001f:46007**
**Roy, Tapan Kumar[2]** *see* **Bhattacharya, D. K., 2001d:46011**
**Schmitt, Matthias** The (non)tensor structure of BV-spaces. (English summary) **2001m:46065**
**Shpiz, G. B.** *see* **Litvinov, G. L. et al., 2001g:46164**
**Solel, Baruch** *see* **Muhly, Paul S., 2001f:46087**
**Yamagami, Shigeru** *see* **Hayashi, Tomohiro[2], 2001d:46092**
**Yoshida, Mamoru** On estimate for some bilinear forms. (English summary) **2001m:46024**

## 46M07 Ultraproducts [see also 46B08, 46S20]

Items with secondary classifications in 46M07

**Cabello Sánchez, Félix** Nearly variants of properties and ultrapowers. (English summary) **2001c:46010**
**Defant, Andreas** (*with* Peris, Alfredo) Transfer arguments for spaces of operators and tensor products. (English summary) **2001c:46004**
**Haydon, Richard** (*with* Levy, Mireille; Raynaud, Y.) ★ Randomly normed spaces. (English summary) **2001e:46017**
**Levy, Mireille** *see* **Haydon, Richard et al., 2001e:46017**
**Peris, Alfredo** *see* **Defant, Andreas, 2001c:46004**
**Raynaud, Y.** *see* **Haydon, Richard et al., 2001e:46017**

## 46M10 Projective and injective objects [see also 46A22]

**Pirkovskiĭ, A. Yu.** Injective topological modules, additivity formulas for homological dimensions and related topics. (English summary) **2001j:46112**

Items with secondary classifications in 46M10

**Chen, Xiao Man** (*with* Guo, Kun Yu) Cohomology and extensions of hypo-Šilov modules over unit modulus algebras. (English summary) **2001f:46073**
**Guo, Kun Yu** Extensions of Hilbert modules and Hankel operators. (English summary) **2001i:47044**
— *see also* **Chen, Xiao Man, 2001f:46073**
**Loy, R. J.** (*with* Read, C. J.; Runde, Volker; Willis, G. A.) Amenable and weakly amenable Banach algebras with compact multiplication. (English summary) **2001h:46088**
**Read, C. J.** *see* **Loy, R. J. et al., 2001h:46088**
**Runde, Volker** *see* **Loy, R. J. et al., 2001h:46088**
**Tabaldyev, S. B.** The Sobolev algebra and indecomposable spatially projective operator algebras. **2001g:46110**
**Willis, G. A.** *see* **Loy, R. J. et al., 2001h:46088**

## 46M15 Categories, functors {For $K$-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20.}

**Akbarov, S. S.** Stereotype spaces, algebras, homologies: an outline. **2001h:46128**
**Kemper, Ralf** $p$-Banach spaces and $p$-totally convex spaces. (English summary) **2001b:46116**
— $p$-Banach spaces and $p$-totally convex spaces. II. (English summary) **2001i:46111**
**Prosmans, Fabienne** Derived categories for functional analysis. (English summary) **2001g:46156**
**Pulgarín, Antonio A.** Characterization of dual extensions in the category of Banach spaces. (English and Spanish summaries) **2001b:46117**

Items with secondary classifications in 46M15

**Abramsky, Samson** (*with* Blute, Richard; Panangaden, Prakash) Nuclear and trace ideals in tensored ∗-categories. (English summary) **2001h:47116**
**Akbarov, S. S.** Stereotype locally convex spaces. (Russian. Russian summary) **2001i:46002**
**Ara, Pere** (*with* Mathieu, Martin) A simple local multiplier algebra. (English summary) **2001a:46056**
**Barr, Michael** ∗-autonomous categories: once more around the track. (English summary) **2001a:18006**
**Blute, Richard** *see* **Abramsky, Samson et al., 2001h:47116**
**Clark, Douglas N.** (*with* Ferguson, Sarah H.) Submodules of $L^2(\mathbf{T}^N)$. (English summary) **2001f:47006**
**Echterhoff, Siegfried** (*with* Kaliszewski, S.; Quigg, John; Raeburn, Iain) Naturality and induced representations. (English summary) **2001j:46101**
**Español, Luis** (*with* Lambán Pardo, Laureano A.) A tensor-hom adjunction in a topos related to vector topologies and bornologies. (English summary) **2001f:18007**
**Ferguson, Sarah H.** *see* **Clark, Douglas N., 2001f:47006**
**Hayashi, Tomohiro[2]** (*with* Yamagami, Shigeru) Amenable tensor categories and their realizations as AFD bimodules. (English summary) **2001d:46092**
**Høst-Madsen, Anders** Separable algebras and covering spaces. **2001i:46085**
**Kaliszewski, S.** *see* **Echterhoff, Siegfried et al., 2001j:46101**

**Kopylov, Ya. A.** (*with* Kuz′minov, V. I.) On the Ker-Coker sequence in a semi-abelian category. (Russian. Russian summary) **2001i:18018**
**Kuz′minov, V. I.** *see* **Kopylov, Ya. A., 2001i:18018**
**Lambán Pardo, Laureano A.** *see* **Español, Luis, 2001f:18007**
**Mathieu, Martin** *see* **Ara, Pere, 2001a:46056**
**Panangaden, Prakash** *see* **Abramsky, Samson et al., 2001h:47116**
**Pavlov, A. A.** The functor $N_0$ over the category of von Neumann algebras and its relation to operator $K$-theory. (Russian. Russian summary) **2001g:46139**
— Normed groups and their application to noncommutative differential geometry. (Russian. English and Russian summaries) **2001m:46158**
**Pumplün, D.** (*with* Röhrl, Helmut) Convexity theories. V. Extensions of absolutely and totally convex modules. (English summary) **2001k:52003**
**Quigg, John** *see* **Echterhoff, Siegfried et al., 2001j:46101**
**Raeburn, Iain** *see* **Echterhoff, Siegfried et al., 2001j:46101**
**Röhrl, Helmut** *see* **Pumplün, D., 2001k:52003**
**Yamagami, Shigeru** *see* **Hayashi, Tomohiro[2], 2001d:46092**

## 46M18 Homological methods (exact sequences, right inverses, lifting, etc.)

**Akbarov, S. S.** Absolute homology theory of stereotypical algebras. (Russian) **2001e:46124**
**Domański, Paweł** (*with* Vogt, Dietmar) A splitting theory for the space of distributions. (English summary) **2001e:46125**
**Khelemskiĭ, A. Ya.** Homology for the algebras of analysis. **2001g:46157**
**Polyakov, M. E.** Homological dimensions of $C(\Omega)$-modules. (Russian. Russian summary) **2001g:46158**
**Selivanov, Yu. V.** Coretraction problems and homological properties of Banach algebras. (English summary) **2001i:46112**
**Suciu, Elena Alina** Elementary replacements and $\mathrm{Ext}^2$ groups for Hilbert modules over a function algebra. (English summary) **2001i:46113**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001e:46125**

Items with secondary classifications in 46M18

**Aristov, O. Yu.** On the definition of a flat operator module. (English summary) **2001e:46090**
**Cabello Sánchez, Félix** (*with* Castillo, Jesús M. F.) Duality and twisted sums of Banach spaces. (English summary) **2001i:46011**
**Castillo, Jesús M. F.** *see* **Cabello Sánchez, Félix, 2001i:46011**
**Chen, Xiao Man** (*with* Guo, Kun Yu) Cohomology and extensions of hypo-Šilov modules over unit modulus algebras. (English summary) **2001f:46073**
**Domański, Paweł** (*with* Vogt, Dietmar) Distributional complexes split for positive dimensions. (English summary) **2001g:46090**
**Guo, Kun Yu** *see* **Chen, Xiao Man, 2001f:46073**
**Moslehian, M. S.** (*with* Niknam, A.) Local cohomology for commutative Banach algebras. (English summary) **2001f:46080**
**Niknam, A.** *see* **Moslehian, M. S., 2001f:46080**
**Perera, Francesc** Lifting units modulo exchange ideals and $C^*$-algebras with real rank zero. (English summary) **2001g:46149**
**Vogt, Dietmar** *see* **Domański, Paweł, 2001g:46090**
**Zhang, Yong[1]** Maximal ideals and the structure of contractible and amenable Banach algebras. (English summary) **2001h:46087**

## 46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]

**Brodzki, Jacek** (*with* Plymen, Roger) Periodic cyclic homology of certain nuclear algebras. (English and French summaries) **2001k:46116**
**Ganiev, I. G.** *see* **Kudaĭbergenov, K. K., 2001k:46117**
**Gourdeau, Frédéric** (*with* White, Michael C.) Vanishing of the third simplicial cohomology group of $l^1(\mathbf{Z}_+)$. (English summary) **2001m:46163**
**Kudaĭbergenov, K. K.** (*with* Ganiev, I. G.) Measurable bundles of compact sets. (Russian. English and Uzbek summaries) **2001k:46117**
**Nguyễn Văn Thu** Morita invariance of entire current cyclic homology. (English summary) **2001c:46127**
**Pham Hien Bang** First holomorphic cohomology group and linear topological properties. **2001m:46164**
**Plymen, Roger** *see* **Brodzki, Jacek, 2001k:46116**
**Pourabbas, Abdolrasoul** Second cohomology of Beurling algebras. **2001e:46126**
**Tian, Guohui** A periodicity theorem in $K$-theory for finite covariant systems. (English summary) **2001c:46128**
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**Ara, Pere** (*with* Mathieu, Martin) A simple local multiplier algebra. (English summary) **2001a:46056**
**Archbold, R. J.** Continuous bundles of $C^*$-algebras and tensor products. **2001d:46083**
**Aristov, O. Yu.** Homological dimensions of $C^*$-algebras. (English summary) **2001i:46093**
**Carey, Alan L.** (*with* Farber, Michael S.; Mathai, Varghese) Correspondences, von Neumann algebras and holomorphic $L^2$ torsion. (English summary) **2001g:58056**
**Carey, Richard** (*with* Pincus, Joel) Perturbation vectors. (English summary) **2001e:47048**
**Dadarlat, Marius** (*with* McClure, James) When are two commutative $C^*$-algebras stably homotopy equivalent? **2001k:46080**
**Dong, Zhe** (*with* Lu, Shi Jie) Cohomology of weakly reducible maximal triangular algebras. (English summary) **2001k:47102**
**Douglas, Ronald G.** (*with* Misra, Gadadhar; Varughese, Cherian) On quotient modules—the case of arbitrary multiplicity. (English summary) **2001f:47012**
**Dupré, Maurice J.** (*with* Glazebrook, James F.) Infinite dimensional manifold structures on principal bundles. (English summary) **2001f:58018**
**Echterhoff, Siegfried** (*with* Williams, Dana P.) Crossed products by $C_0(X)$-actions. (English summary) **2001b:46105**
**El-Dean, A. H. Nour** *see* **Gouda, Y. Gh., 2001e:46123**
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**Fainshtein, A. S.** Corrections to the paper: "Taylor joint spectrum for families of operators generating nilpotent Lie algebras" [J. Operator Theory **29** (1993), no. 1, 3–27; MR 95j:47006]. (English summary) **2001k:47012**
**Farber, Michael S.** *see* **Carey, Alan L. et al., 2001g:58056**
**Glazebrook, James F.** *see* **Dupré, Maurice J., 2001f:58018**
**Gouda, Y. Gh.** (*with* El-Dean, A. H. Nour) On the reflexive and dihedral cohomology of stable $C^*$-algebras. (English and Arabic summaries) **2001e:46123**
**Gutman, A. E.** Banach fiberings in the theory of lattice-normed spaces. (Russian. Russian summary) **2001k:46033**
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**Isidro, José María[1]** (*with* Stachó, László L.) Holomorphic automorphisms of continuous products of balls. (English summary) **2001g:46103**
**Karoubi, Max** Rapport sur la $K$-théorie (1956–1997). [Report on $K$-theory (1956–1997)] **2001h:19001**
**Kirchberg, Eberhard** (*with* Phillips, N. Christopher) Embedding of continuous fields of $C^*$-algebras in the Cuntz algebra $\mathcal{O}_2$. (English summary) **2001m:46115**
**Krupnik, Naum Yakovlevich** *see* **Antonevich, Anatoliĭ B., 2001h:46103**
**Lu, Shi Jie** *see* **Dong, Zhe, 2001k:47102**
**Mathai, Varghese** *see* **Carey, Alan L. et al., 2001g:58056**
**Mathieu, Martin** *see* **Ara, Pere, 2001a:46056**
**McClure, James** *see* **Dadarlat, Marius, 2001k:46080**
**Meyer, Ralf** Equivariant Kasparov theory and generalized homomorphisms. (English summary) **2001m:19013**
**Misra, Gadadhar** *see* **Douglas, Ronald G. et al., 2001f:47012**
**Mrčun, Janez** Functoriality of the bimodule associated to a Hilsum-Skandalis map (English summary) **2001k:22004**
**Nagy, Gabriel** Bivariant $K$-theories for $C^*$-algebras. (English summary) **2001b:46112**
**Park, Efton** (*with* Trout, Jody) Representable $E$-theory for $C_0(X)$-algebras. (English summary) **2001m:46157**
**Phillips, N. Christopher** *see* **Kirchberg, Eberhard, 2001m:46115**
**Pincus, Joel** *see* **Carey, Richard, 2001e:47048**
**Pirkovskiĭ, A. Yu.** Injective topological modules, additivity formulas for homological dimensions and related topics. (English summary) **2001j:46112**
**Prosmans, Fabienne** Derived limits in quasi-abelian categories. (English summary) **2001b:18011**
**Pugach, L. I.** Projective ideals of Banach algebras, and approximate units. (Russian. English and Russian summaries)
**Raeburn, Iain** *see* **an Huef, Astrid et al., 2001b:46107**
**Read, C. J.** Commutative, radical amenable Banach algebras. (English summary) **2001f:46078**
**Runde, Volker** Automatic continuity and second order cohomology. (English summary) **2001h:46091**
**Shubin, Mikhail** De Rham theorem for extended $L^2$-cohomology. (English summary) **2001c:58025**
**Sinclair, Allan M.** (*with* Smith, Roger R.) Cohomology for finite index inclusions of factors. (English summary) **2001m:46137**
**Smith, Roger R.** *see* **Sinclair, Allan M., 2001m:46137**
**Stachó, László L.** *see* **Isidro, José María[1], 2001g:46103**
**Trout, Jody** *see* **Park, Efton, 2001m:46157**
**Varughese, Cherian** *see* **Douglas, Ronald G. et al., 2001f:47012**
**Williams, Dana P.** *see* **Echterhoff, Siegfried, 2001b:46105** *and* **an Huef, Astrid et al., 2001b:46107**

## 46M35 Abstract interpolation of topological vector spaces [see also 46B70]

**Bento, A. J. G.** Interpolation of compact non-linear operators. (English summary) **2001e:46127**
**Berezhnoĭ, E. I.** (*with* Perfil′ev, A. A.) A sharp extrapolation theorem for operators. (Russian)
**Bergh, Jöran** (*with* Cobos, Fernando) A maximal description for the real interpolation method in the quasi-Banach case. (English summary) **2001g:46159**
**Carro, María J.** (*with* Nikolova, Lyudmila I.) Real interpolation for families of Banach spaces and the compactness property. **2001f:46109**
**Cerdà, Joan** (*with* Mastyło, Mieczysław) The type and cotype of Calderón-Lozanovskiĭ spaces. (English summary) **2001a:46071**
**Cobos, Fernando** Interpolation theory and measures related to operator ideals. (English summary) **2001f:46110**
— (*with* Martínez Martínez, Antón) Extreme estimates for interpolated operators by the real method. (English summary) **2001e:46128**
— (*with* Manzano, A.; Martínez Martínez, Antón; Matos, Pedro) On interpolation of strictly singular operators, strictly co-singular operators and related operator ideals. (English summary) **2001j:46113**
— (*with* Signes, Teresa) On a result of Peetre about interpolation of operator spaces. (English summary) **2001i:46114**
— *see also* **Bergh, Jöran, 2001g:46159**
**Cwikel, Michael** (*with* Pustylnik, Evgenii) Weak type interpolation near "endpoint" spaces. (English summary) **2001b:46118**
**Defant, Andreas** (*with* Michels, Carsten) A complex interpolation formula for tensor products of vector-valued Banach function spaces. (English summary) **2001d:46103**
— (*with* Michels, Carsten) Complex interpolation of spaces of operators on $l_1$. (English summary) **2001f:46111**

**Evans, William Desmond** (*with* Opic, Bohumír) Real interpolation with logarithmic functors and reiteration. (English summary) **2001i:46115**
**Krepkogorskiĭ, V. L.** On multidimensional interpolation methods. (Russian) **2001h:46129**
**Kryczka, Andrzej** (*with* Prus, Stanisław; Szczepanik, Mariusz) Measure of weak noncompactness and real interpolation of operators. (English summary) **2001i:46116**
**López Molina, J. A.** On subspaces isomorphic to $l^q$ in interpolation of quasi Banach spaces. (English summary) **2001j:46114**
**Manzano, A.** *see* **Cobos, Fernando et al., 2001j:46113**
**Martínez Martínez, Antón** *see* **Cobos, Fernando et al., 2001e:46128** *and* **2001j:46113**
**Mastylo, Mieczysław** Interpolation orbit functors and reiteration theorems. (English summary) **2001f:46112**
— *see also* **Cerdà, Joan, 2001a:46071**
**Matos, Pedro** *see* **Cobos, Fernando et al., 2001j:46113**
**Meng, Bo Qin** Applications of the theory of interpolation spaces. (Chinese. English and Chinese summaries) **2001k:46118**
**Michels, Carsten** *see* **Defant, Andreas, 2001d:46103** *and* **2001f:46111**
**Nikolova, Lyudmila I.** *see* **Carro, María J., 2001f:46109**
**Opic, Bohumír** *see* **Evans, William Desmond, 2001i:46115**
**Ovchinnikov, Vladimir I.** On reiteration theorems. (English summary) **2001b:46119**
**Perfil'ev, A. A.** *see* **Berezhnoĭ, E. I.**
**Prus, Stanisław** *see* **Kryczka, Andrzej et al., 2001i:46116**
**Pustylnik, Evgenii** *see* **Cwikel, Michael, 2001b:46118**
**Schonbek, Tomas P.** Interpolation of compact operators by the complex method and equicontinuity. (English summary) **2001j:46115**
**Signes, Teresa** *see* **Cobos, Fernando, 2001i:46114**
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**Watbled, Frédérique** Complex interpolation of a Banach space with its dual. (English summary) **2001j:46116**
**Xu, Quanhua** Interpolation of Schur multiplier spaces. (English summary) **2001j:46117**
**Yu, Lin[1]** Real interpolation between $B$-valued martingale Hardy spaces. (English summary) **2001d:46104**
**Zobin, Nahum** (*with* Zobin, Veronica) Geometric structure of $B_{2,2}$-orbihedra and interpolation of operators. (English summary) **2001k:46119**
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**Albrecht, Ernst** (*with* Müller, Vladimír) Spectrum of interpolated operators. (English summary) **2001j:47001**
**Amann, Herbert** Compact embeddings of vector-valued Sobolev and Besov spaces. (English summary) **2001h:46056**
**Astashkin, S. V.** On the interpolation of subspaces of symmetric spaces generated by the Rademacher system. (Russian. English and Russian summaries) **2001h:46034**
— Fourier-Rademacher coefficients of functions in symmetric spaces. (Russian. Russian summary) **2001g:42052**
**Bryskin, I. B.** (*with* Semënov, E. M.) Uncomplemented subspaces of Lorentz spaces. (Russian. Russian summary) **2001m:46061**
**Carbery, Anthony** (*with* Seeger, Andreas; Wainger, Stephen; Wright, James Robert) Classes of singular integral operators along variable lines. (English summary) **2001g:42026**
**Carro, María J.** New extrapolation estimates. (English summary) **2001j:46034**
**Cerdà, Joan** (*with* Martín, Joaquim) Calderón couples of Lorentz spaces. (English summary) **2001i:46038**
**Cianchi, Andrea** Some results in the theory of Orlicz spaces and applications to variational problems. **2001i:46046**
**Cruz-Uribe, David** (*with* Pérez, Carlos) Two weight extrapolation via the maximal operator. (English summary) **2001g:42040**
**Cwikel, Michael** (*with* Gulisashvili, Archil) Interpolation on families of characteristic functions. (English summary) **2001c:46033**
**Dechevski, Lyubomir T.** (*with* Ramsay, James O.; Penev, Spiridon I.) Penalized wavelet estimation with Besov regularity constraints. (English summary) **2001i:42062**
**Dore, Giovanni** $H^\infty$ functional calculus in real interpolation spaces. (English summary) **2001f:47028**
**Gianazza, Ugo** (*with* Vespri, Vincenzo) Hölder classes relative to degenerate elliptic operators as interpolation spaces. (English summary) **2001e:46036**
**Gulisashvili, Archil** *see* **Cwikel, Michael, 2001c:46033**
**Kislyakov, S. V.** (*with* Xu, Quanhua) Partial retractions for weighted Hardy spaces. (English summary) **2001i:46031**
**Krepkogorskiĭ, V. L.** Interpolation and embedding theorems for quasinormed Besov spaces. (Russian) **2001g:46079**
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**Krylov, Nicolai V.** Some properties of weighted Sobolev spaces in $\mathbf{R}^d_+$. (English summary) **2001f:46051**
**Li, Song** $K$-functional, weighted moduli of smoothness, and best weighted polynomial approximation on a simplex. (English summary) **2001b:41005**
— (*with* Wu, Zhengchang; Ma, Bo Lin) Besov spaces and $K$-functionals in $L_p$, $0 < p < 1$. (English summary) **2001e:41044**
**Liu, Guan-ting** The interpolation theorems of $H^{\mathrm{Bo}}(D)$ spaces. (English and Chinese summaries) **2001i:46032**
**Liu, Lan Zhe** Weighted inequalities in generalized Morrey spaces of maximal and singular integral operators on spaces of homogeneous type. (English summary) **2001m:47069**
**López Molina, J. A.** (*with* Martínez-Giménez, Félix; Rivera Ortún, María José; Sánchez Pérez, E. A.) Montel maps on interpolation of echelon sequence Köthe spaces by Goulaouic's method. **2001g:46015**
**Lototskiĭ, S. V.** Sobolev spaces with weights in domains and boundary value problems for degenerate elliptic equations. (English summary) **2001m:46077**
**Lu, Guozhen** Polynomials, higher order Sobolev extension theorems and interpolation inequalities on weighted Folland-Stein spaces on stratified groups. (English summary) **2001k:46054**
**Lunardi, Alessandra** Regularity for a class of sums of noncommuting operators. (English summary) **2001b:47065**
**Ma, Bo Lin** *see* **Li, Song et al., 2001e:41044**
**Majer, Pietro** (*with* Mortola, Stefano; Prodi, Giovanni) Inclusions of Banach spaces. (English summary) **2001b:46037**
**Martín, Joaquim** *see* **Cerdà, Joan, 2001i:46038**
**Martínez-Giménez, Félix** *see* **López Molina, J. A. et al., 2001g:46015**
**Maz'ya, Vladimir G.** (*with* Shaposhnikova, Tat'yana) Pointwise interpolation inequalities for Riesz and Bessel potentials. (English summary) **2001f:46052**
**Mortola, Stefano** *see* **Majer, Pietro et al., 2001b:46037**
**Müller, Vladimír** *see* **Albrecht, Ernst, 2001j:47001**
**Muscalu, Camil** A joint norm control Nehari type theorem for $N$-tuples of Hardy spaces. (English summary) **2001m:46050**
**Penev, Spiridon I.** *see* **Dechevski, Lyubomir T. et al., 2001i:42062**
**Pérez, Carlos** *see* **Cruz-Uribe, David, 2001g:42040**
**Prodi, Giovanni** *see* **Majer, Pietro et al., 2001b:46037**
**Pustylnik, Evgenii** Optimal interpolation in spaces of Lorentz-Zygmund type. (English summary) **2001a:46028**
**Pyatkov, S. G.** Interpolation of weighted Sobolev spaces. (English summary) **2001m:46079**
**Ramsay, James O.** *see* **Dechevski, Lyubomir T. et al., 2001i:42062**
**Rivera Ortún, María José** *see* **López Molina, J. A. et al., 2001g:46015**
**Sánchez Pérez, E. A.** *see* **López Molina, J. A. et al., 2001g:46015**
**Seeger, Andreas** *see* **Carbery, Anthony et al., 2001g:42026**
**Semënov, E. M.** *see* **Bryskin, I. B., 2001m:46061**
**Shaposhnikova, Tat'yana** *see* **Maz'ya, Vladimir G., 2001f:46052**
**Shvartsman, Pavel** The $K$-functional of the pair $(L_\infty(w), \mathrm{BMO})$. (English summary) **2001c:46057**
**Sobukawa, Takuya** Corrections to: "Extrapolation theorem on quasi-normed $L^p$ spaces" [Math. Japon. **43** (1996), no. 2, 241–251; MR 97k:46036]. **2001h:46041**
**Tao, Terence C.** A converse extrapolation theorem for translation-invariant operators. (English summary) **2001m:46066**
**Vespri, Vincenzo** *see* **Gianazza, Ugo, 2001e:46036**
**Wainger, Stephen** *see* **Carbery, Anthony et al., 2001g:42026**
**Wright, James Robert** *see* **Carbery, Anthony et al., 2001g:42026**
**Wu, Zhengchang** *see* **Li, Song et al., 2001e:41044**
**Xu, Quanhua** Brownian martingales and some new results on interpolation of Hardy spaces. (English summary) **2001b:46036**
— *see also* **Kislyakov, S. V., 2001i:46031**
**Zegarliński, Bogusław** Hypercontractivity in non-commutative $L_p$ spaces. (English summary) **2001k:46100**
**Zhang, Yong Hu** An equivalence relation between the weighted $K$-functionals and the weighted smoothness moduli in $B_\alpha$ spaces. (Chinese. English and Chinese summaries) **2001j:41048**

## 46M40 Inductive and projective limits [see also 46A13]

Items with secondary classifications in 46M40

**Allan, Graham R.** Stable inverse-limit sequences and automatic continuity. (English summary) **2001i:46082**
**Bonet, José** (*with* Taskinen, Jari) The subspace problem for weighted inductive limits revisited. (English summary) **2001e:46035**
**Elliott, George A.** (*with* Fulman, Igor) On classification of certain $C^*$-algebras. (English summary) **2001m:46113**
**Fulman, Igor** *see* **Elliott, George A., 2001m:46113**
**Kučera, Jan** Regularity of conservative inductive limits. (English summary) **2001b:46006**
**Orlov, I. V.** A termwise differentiation in the inductive scales of the locally convex spaces. (English summary) **2001d:46061**
**Prosmans, Fabienne** Derived categories for functional analysis. (English summary) **2001g:46156**
**Taskinen, Jari** *see* **Bonet, José, 2001e:46035**

## 46M99 None of the above, but in this section

Items with secondary classifications in 46M99

**Lowen, Robert** (*with* Sioen, M.) Approximations in functional analysis. (English summary) **2001c:46035**
**Sioen, M.** *see* **Lowen, Robert, 2001c:46035**
**Wang, Zong Yao** (*with* Xue, Yifeng) On the unique finite (SI) decomposition of the Jordan operator $\bigoplus_{i=1}^n S(\theta)$ for certain inner function $\theta$. (English summary) **2001d:47017**
**Xue, Yifeng** *see* **Wang, Zong Yao, 2001d:47017**

# 46Nxx Miscellaneous applications of functional analysis [see also 47Nxx]

## 46N10 Applications in optimization, convex analysis, mathematical programming, economics

Items with secondary classifications in 46N10

**Amara, Charki** (*with* Volle, Michel) Compléments de dualité quasi convexe. (English and French summaries) [More on quasiconvex duality] **2001a:90075**
**Averbukh, Vladimir I.** A generalization of Dubovitskij-Miliutin theorem.
**Ballve, M. E.** (*with* Jiménez Guerra, P.; Muñoz-Bouzo, María J.) The mass-transfer vector problem. (English summary) **2001f:28016**
**Bolintinéanu, Serban** Approximate efficiency and scalar stationarity in unbounded nonsmooth convex vector optimization problems. (English summary) **2001i:90071**
**Borwein, Jonathan M.** (*with* Lewis, Adrian S.) ★ Convex analysis and nonlinear optimization. (English summary) **2001h:49001**

— (*with* Lucet, Yves; Mordukhovich, Boris S.) Compactly epi-Lipschitzian convex sets and functions in normed spaces. (English summary) **2001k:49048**
**Cheng, Yonghong** *see* **Fu, Wan Tao, 2001m:90095**
**Clark, Stephen A.** Arbitrage approximation theory. (English summary) **2001c:91032**
**Daniilidis, Aris** Arrow-Barankin-Blackwell theorems and related results in cone duality: a survey. (English summary) **2001h:90071**
**Defigueiredo, Rui J. P.** (*with* Hu, Yao Zhong) On nonlinear filtering of non-Gaussian processes through Volterra series. (*see* **2001a:45003**)
**Deville, Robert** (*with* Finet, Catherine) Vector-valued perturbed minimization principles. (English summary) **2001g:49022**
**Dolecki, Szymon** (*with* El Ghali, Badia) Some old and new results on lower semicontinuity of minimal points. **2001b:49036**
**El Ghali, Badia** *see* **Dolecki, Szymon, 2001b:49036**
**Fabian, Marián J.** (*with* Mordukhovich, Boris S.) Nonsmooth characterizations of Asplund spaces and smooth variational principles. (English summary) **2001c:49026**
**Figliolini, Franca** (*with* Guido, Daniele) Inclusions of second quantization algebras. **2001m:81118**
**Finet, Catherine** *see* **Deville, Robert, 2001g:49022**
**Fitzpatrick, S. P.** (*with* Simons, Stephen) On the pointwise maximum of convex functions. (English summary) **2001b:49025**
**Fu, Wan Tao** (*with* Cheng, Yonghong) On the super efficiency in locally convex spaces. **2001m:90095**
**Geoffroy, Michel** (*with* Lassonde, Marc) On a convergence of lower semicontinuous functions linked with the graph convergence of their subdifferentials. (English summary) **2001k:49043**
**Georgiev, Pando Grigorov** Variational principles in Banach spaces and their parametrizations. (*see* **2001d:00047**)
**Gong, Xun Hua** *see* **Hu, Y. D., 2001c:90067**
**Göpfert, Alfred** (*with* Tammer, Chr.; Zălinescu, Constantin) A new minimal point theorem in product spaces. (English summary) **2001c:49032**
**Gorokhovik, Valentin V.** (*with* Zabreĭko, Petr Petrovich) Fréchet differentiability of multimappings. (Russian. English summary) **2001b:46067**
**Guido, Daniele** *see* **Figliolini, Franca, 2001m:81118**
**Hamel, Andreas** An $\epsilon$-Lagrange multiplier rule for a mathematical programming problem on Banach spaces. (English summary) **2001m:90133**
**Hoàng Xuân Phú** (*with* Phan Thanh An) Outer $\gamma$-convexity in normed linear spaces. (English summary) **2001k:90116**
**Hu, Y. D.** (*with* Gong, Xun Hua) Super efficiency and its scalarization in topological vector space. (English summary) **2001c:90067**
— (*with* Ling, Chen) Connectedness of cone superefficient point sets in locally convex topological vector spaces. (English summary) **2001j:90085**
**Hu, Yao Zhong** *see* **Defigueiredo, Rui J. P., (2001a:45003)**
**Isnard, C. A.** (*with* Iusem, Alfredo Noel) On mixed Hölder-Minkowski inequalities and total convexity of certain functions in $\mathscr{L}^p(\Omega)$. (English summary) **2001f:46021**
**Iusem, Alfredo Noel** *see* **Isnard, C. A., 2001f:46021**
**Jiménez Guerra, P.** *see* **Ballve, M. E. et al., 2001f:28016**
**Komiya, Hidetoshi** (*with* Tamura, Takayuki) Core equivalence in topological Riesz spaces without convexity. (English summary) **2001d:91120**
**Kruger, A. Ya.** On the extremality of set systems. (Russian. English and Russian summaries) **2001a:90076**
**Lassonde, Marc** *see* **Geoffroy, Michel, 2001k:49043**
**Lewis, Adrian S.** *see* **Borwein, Jonathan M., 2001h:49001**
**Liang, Jin** On convergence of a sequence of parameterized closed convex sets and its applications. (English summary) **2001m:49018**
**Ling, Chen** *see* **Hu, Y. D., 2001j:90085**
**Lu, Jinkui** $k$-major order in real infinite-dimensional linear space and its application. (English summary) **2001e:90081**
**Lucet, Yves** *see* **Borwein, Jonathan M. et al., 2001k:49048**
**Maisuradze, V.** *see* **Salukvadze, M. et al.**
**Majer, Pietro** (*with* Mortola, Stefano; Prodi, Giovanni) Inclusions of Banach spaces. (English summary) **2001b:46037**
**Mastroeni, Giandomenico** (*with* Rapcsák, Tamás) On convex generalized systems. (English summary) **2001d:90120**
**Moore, James C.** ★ Mathematical methods for economic theory. 1. (English summary) **2001c:91025a**
— ★ Mathematical methods for economic theory. 2. (English summary) **2001c:91025b**
**Mordukhovich, Boris S.** *see* **Fabian, Marián J., 2001c:49026** *and* **Borwein, Jonathan M. et al., 2001k:49048**
**Mortola, Stefano** *see* **Majer, Pietro et al., 2001b:46037**
**Muñoz-Bouzo, María J.** *see* **Ballve, M. E. et al., 2001f:28016**
**Pallaschke, Diethard** (*with* Urbański, Ryszard) Invariants of pairs of compact convex sets. (English summary) **2001g:52004**
**Park, Sehie** Elements of the KKM theory for generalized convex spaces. (English summary) **2001m:47119**
**Paşca, Daniel** Critical points for the Fenchel transform of a convex function. (English summary) **2001f:49063**
**Phan Thanh An** *see* **Hoàng Xuân Phú, 2001k:90116**
**Precupanu, Anca-Maria** (*with* Precupanu, Teodor) $f$-antiproximinality in a locally convex space of vectorial functions. **2001m:41041**
**Precupanu, Teodor** *see* **Precupanu, Anca-Maria, 2001m:41041**
**Prodi, Giovanni** *see* **Majer, Pietro et al., 2001b:46037**
**Rapcsák, Tamás** *see* **Mastroeni, Giandomenico, 2001d:90120**
**Ricceri, Biagio** A general variational principle and some of its applications. (English summary) **2001h:47114**
**Rozoveanu, P.** The Ekeland's variational principle for vector-valued multifunctions. (English summary) **2001k:49049**
**Salukvadze, M.** (*with* Topchishvili, A.; Maisuradze, V.) On some properties of conjugate mappings of set-valued mappings. (English summary)
**Sambucini, Anna Rita** Remarks on set valued integrals of multifunctions with non-empty bounded closed and convex values. (English summary)
**Semenov, Pavel V.** Nonconvexity in problems of multivalued calculus. **2001h:90117**
**Shi, Feng[1]** Minimization of functions having Lipschitz continuous Gateaux-derivatives. (Chinese. English and Chinese summaries)
**Simons, Stephen** *see* **Fitzpatrick, S. P., 2001b:49025**
**Tammer, Chr.** *see* **Göpfert, Alfred et al., 2001c:49032**
**Tamura, Takayuki** *see* **Komiya, Hidetoshi, 2001d:91120**
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**Udertso, A.** On the convexification and the subdifferentiation of operators in Banach spaces. (English summary) **2001k:49047**
**Urbański, Ryszard** *see* **Pallaschke, Diethard, 2001g:52004**
**Volle, Michel** *see* **Amara, Charki, 2001a:90075**
**Wang, Ge Ping** *see* **Zhu, Jiang[2] et al.**
**Wu, Wei Zhi** (*with* Yang, Xiao Ping) A new version of convergence for sequences of sets in Banach spaces. (Chinese. English and Chinese summaries) **2001d:46026**
**Yang, Xiao Ping** *see* **Wu, Wei Zhi, 2001d:46026**
**Zabreĭko, Petr Petrovich** *see* **Gorokhovik, Valentin V., 2001b:46067**
**Zălinescu, Constantin** *see* **Göpfert, Alfred et al., 2001c:49032**
**Zeng, Ren Ying** Nonsmooth analysis and multiobjective programming in a locally convex linear topological space. (Chinese. English and Chinese summaries) **2001e:49030**
**Zheng, Xi Yin** Contractibility and connectedness of efficient point sets. (English summary) **2001b:90090**
**Zhong, Cheng Kui** *see* **Zhu, Jiang[2] et al.**
**Zhu, Jiang[2]** (*with* Zhong, Cheng Kui; Wang, Ge Ping) Vector-valued variational principle in fuzzy metric space and its applications. (English summary)

## 46N20 Applications to differential and integral equations

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**Aissaoui, Noureddine** Some developments of strongly nonlinear potential theory. (English summary) **2001f:31011**
**Aizenberg, Lev** (*with* Tarkhanov, Nikolai N.) A Bohr phenomenon for elliptic equations. **2001m:32003**
**Alvarez, Josefina** (*with* Folch-Gabayet, Magali; Pérez-Esteva, Salvador) Banach spaces of solutions of the Helmholtz equation in the plane. (English summary) **2001m:46057**
**Bernardi, Christine** (*with* Dauge, Monique; Maday, Yvon) Compatibilité de traces aux arêtes et coins d'un polyèdre. (English and French summaries) [Compatibility of traces on the edges and corners of a polyhedron] **2001j:46039**
**Bouzar, Chikh** (*with* Chaïli, Rachid) Une généralisation du problème des itérés. (English summary) [A generalization of the iteration problem] **2001m:35052**
**Brenner, Philip** (*with* Kumlin, Peter) On wave equations with supercritical nonlinearities. (English summary) **2001g:35162**
**Brezis, Haïm** (*with* Li, Yan Yan; Mironescu, Petru; Nirenberg, Louis) Degree and Sobolev spaces. (English summary) **2001a:47065**
**Carozza, Menita** (*with* Sbordone, Carlo) The distance to $L^\infty$ in some function spaces and applications. (English summary) **2001b:46052**
**Chaïli, Rachid** *see* **Bouzar, Chikh, 2001m:35052**
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**Diederich, Klas** (*with* Fischer, Bert; Fornæss, John Erik) Hölder estimates on convex domains of finite type. **2001f:32065**
**Dubinskiĭ, Yu. A.** (*with* Osipenko, A. S.) Nonlinear analytic and co-analytic problems ($L_p$-theory, Clifford analysis, examples). (Russian. Russian summary) **2001f:30047**
**Edmunds, David E.** (*with* Triebel, Hans) Eigenfrequencies of isotropic fractal drums. (English summary) **2001h:35137**
**Egorov, I. E.** Embedding and compactness theorems for a class of weighted spaces. (Russian) (*see* **2001d:35003**)
**Eller, Matthias M.** Uniqueness of continuation theorems. (English summary) **2001m:35042**
**Filippov, V. V.** On second-order differential inclusions. (Russian. English and Russian summaries) **2001h:34028**
**Fischer, Bert** *see* **Diederich, Klas et al., 2001f:32065**
**Folch-Gabayet, Magali** *see* **Alvarez, Josefina et al., 2001m:46057**
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**Gordina, Maria** Heat kernel analysis and Cameron-Martin subgroup for infinite dimensional groups. (English summary) **2001g:60132**
**Gröchenig, Karlheinz** (*with* Heil, Christopher) Modulation spaces and pseudodifferential operators. (English summary) **2001a:47051**
**Heil, Christopher** *see* **Gröchenig, Karlheinz, 2001a:47051**
**Hirachi, Kengo** Construction of boundary invariants and the logarithmic singularity of the Bergman kernel. **2001f:32003**
**Jouini, Elyès** Generalized Lipschitz functions. **2001c:49027**
**Kaizu, Satoshi** A discrete compact injection and its application to the convection problems. (*see* **2001f:65004**)
**Kalton, N. J.** (*with* Lancien, G.) A solution to the problem of $L^p$-maximal regularity. (English summary) **2001k:47062**
**Kozhevnikov, Alexander** (*with* Roĭtberg, Ya. A.) Parameter-elliptic boundary value problems for Douglis-Nirenberg systems in complete scales of Banach spaces of distributions. (Ukrainian summary)
**Kozlov, Vladimir Arkad'evich** (*with* Maz'ya, Vladimir G.) ★ Differential equations with operator coefficients with applications to boundary value problems for partial differential equations. (English summary) **2001d:34090**
**Kumlin, Peter** *see* **Brenner, Philip, 2001g:35162**
**Kurbatov, Vitalii G.** ★ Functional-differential operators and equations. (English summary) **2001a:47050**
**Kuznetsov, S. E.** Removable singularities for $Lu = \Psi(u)$ and Orlicz capacities. (English summary) **2001g:35078**
**Lancien, G.** *see* **Kalton, N. J., 2001k:47062**
**Lee, Jinkee** (*with* Shon, Kwang Ho) Existence of the solutions of the Cauchy-Riemann equations. (English summary) **2001d:32051**
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**Maday, Yvon** *see* **Bernardi, Christine et al., 2001j:46039**
**Maremonti, Paolo** Some interpolation inequalities involving Stokes operator and first order derivatives. **2001b:35244**
**Maruyama, Toru** A generalization of the weak convergence theorem in Sobolev spaces with application to differential inclusions in a Banach space. (English summary)
**Maz'ya, Vladimir G.** *see* **Kozlov, Vladimir Arkad'evich, 2001d:34090**
**Melenk, Jens Markus** On $n$-widths for elliptic problems. (English summary) **2001f:35167**
**Mironescu, Petru** *see* **Brezis, Haïm et al., 2001a:47065**
**Nasyrova, Maria** (*with* Stepanov, Vladimir D.) On maximal overdetermined Hardy's inequality of second order on a finite interval. (English summary) **2001g:26015**
**Nirenberg, Louis** *see* **Brezis, Haïm et al., 2001a:47065**
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**Pilipović, Stevan S.** (*with* Stojanović, Mirjana) Quasiasymptotics at zero and nonlinear problems in a framework of Colombeau generalized functions. (English summary) **2001j:46055**
**Ragusa, Maria Alessandra** Elliptic boundary value problem in vanishing mean oscillation hypothesis. (English summary) **2001g:35058**
**Roĭtberg, Ya. A.** *see* **Kozhevnikov, Alexander**
**Saitoh, Saburou** Linear integrodifferential equations and the theory of reproducing kernels. (English summary) **2001a:45024**
**Sbordone, Carlo** *see* **Carozza, Menita, 2001b:46052**
**Secchi, Paolo** Some properties of anisotropic Sobolev spaces. (English summary) **2001h:46055**
**Shon, Kwang Ho** *see* **Lee, Jinkee, 2001d:32051**
**Smith, Hart F.** A Hardy space for Fourier integral operators. (English summary) **2001f:35459**
**Stannat, Wilhelm** On the validity of the log-Sobolev inequality for symmetric Fleming-Viot operators. (English summary) **2001k:60108**
**Stepanov, Vladimir D.** *see* **Nasyrova, Maria, 2001g:26015**
**Stojanović, Mirjana** *see* **Pilipović, Stevan S., 2001j:46055**
**Sychev, Mikhail A.** Characterization of homogeneous gradient Young measures in case of arbitrary integrands. (English summary) **2001m:26029**
**Tarkhanov, Nikolai N.** *see* **Aizenberg, Lev, 2001m:32003**
**Tosone, Carlo** On the boundary operator of a fourth order differential problem. (English summary) **2001i:35127**
**Triebel, Hans** *see* **Edmunds, David E., 2001h:35137**
**Weder, Ricardo** Inverse scattering on the line for the nonlinear Klein-Gordon equation with a potential. (English summary) **2001j:35272**
**Wei, Shihshu Walter** The balance between existence and nonexistence theorems in differential geometry. (English summary) **2001m:53058**
**Zhang, Bo[1]** Commutator estimates, Besov spaces and scattering problems for the acoustic wave propagation in perturbed stratified fluids. (English summary) **2001c:35181**

## 46N30 Applications in probability theory and statistics

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**Aguilera Del Pino, Ana Ma.** *see* **Ocaña Lara, Francisco A. et al., 2001g:62040**
**Andersson, Mats Erik** Remarks on hypercontractivity for the smallest groups. (English summary) **2001m:47085**
**Bojdecki, Tomasz** (*with* Gorostiza, Luis G.) Self-intersection local time for $\mathscr{S}'(\mathbb{R}^d)$-Wiener processes and related Ornstein-Uhlenbeck processes. (English summary) **2001k:60060**
**Bosq, D.** ★ Linear processes in function spaces. (English summary) **2001k:60054**
**Davydov, Yu. A.** (*with* Paulauskas, Vygantas; Račkauskas, Alfredas) More on $p$-stable convex sets in Banach spaces. (English summary) **2001g:60009**
**Daykin, David E.** The extreme points of the probabilistic capacities cone problem. **2001f:28002**
**Dinculeanu, Nicolae** (*with* Muthiah, Muthu) Stochastic integral of process measures in Banach spaces. III. Square integrable martingale measures. (English and Italian summaries) **2001h:60098**
**Gorostiza, Luis G.** *see* **Bojdecki, Tomasz, 2001k:60060**
**Handelman, David E.** Eigenvectors and ratio limit theorems for Markov chains and their relatives. (English summary) **2001e:60142**
**Inahama, Yuzuru** Logarithmic Sobolev inequality on free loop groups for heat kernel measures associated with the general Sobolev spaces. (English summary) **2001k:60077**
**Jonsson, Alf** Dirichlet forms and Brownian motion penetrating fractals. (English summary) **2001h:31011**
**Kachanovskiĭ, N. A.** On a biorthogonal approach to the construction of non-Gaussian analysis. (English summary) **2001j:46051**
**Koldobsky, Alexander** (*with* Lonke, Yossi) A short proof of Schoenberg's conjecture on positive definite functions. (English summary) **2001j:42008**
**Kumagai, Takashi** Brownian motion penetrating fractals: an application of the trace theorem of Besov spaces. (English summary) **2001a:31009**
**Lambert, Alan** Conditional expectations generating the commutants of subalgebras of $L^\infty$. (English summary) **2001i:47057**
**Lember, Jüri** ★ Consistency of empirical $k$-centres. (Estonian summary) **2001d:60008**
**Lonke, Yossi** *see* **Koldobsky, Alexander, 2001j:42008**
**Muthiah, Muthu** *see* **Dinculeanu, Nicolae, 2001h:60098**
**Ocaña Lara, Francisco A.** (*with* Aguilera Del Pino, Ana Ma.; Valderrama Bonnet, Mariano J.) Functional principal components analysis by choice of norm. (English summary) **2001g:62040**
**Osborne, Michael R.** Variable selection and control in least squares problems. (English summary) **2001j:65018**
**Paulauskas, Vygantas** *see* **Davydov, Yu. A. et al., 2001g:60009**
**Pietruska-Pałuba, Katarzyna** On function spaces related to fractional diffusions on $d$-sets. (English summary) **2001i:60123**
**Pollak, Edward** *see* **Wang, Yufeng, 2001k:92059**
**Popovici, D.** Orthogonal decompositions in Hilbert $C^*$-modules and stationary processes. (English summary) **2001d:46089**
**Račkauskas, Alfredas** *see* **Davydov, Yu. A. et al., 2001g:60009**
**Schütt, Carsten** (*with* Werner, Elisabeth) Random polytopes with vertices on the boundary of a convex body. (English and French summaries) **2001j:60027**
**Üstünel, A. Süleyman** (*with* Zakai, Moshe) Embedding the abstract Wiener space in a probability space. (English summary) **2001c:60094**
**Valderrama Bonnet, Mariano J.** *see* **Ocaña Lara, Francisco A. et al., 2001g:62040**
**Voiculescu, Dan** Lectures on free probability theory. **2001g:46121**
**Wang, Yufeng** (*with* Pollak, Edward) The effective number of a population that varies cyclically in size. I. Discrete generations. (English summary) **2001k:92059**
**Werner, Elisabeth** *see* **Schütt, Carsten, 2001j:60027**
**Zakai, Moshe** *see* **Üstünel, A. Süleyman, 2001c:60094**

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## 46N40 Applications in numerical analysis [see also 65Jxx]

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**Akkuratova, S. V.** *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
**Babaev, M.-B. A.** Exact annihilators and their applications in approximation theory. (English and Azerbaijani summaries)
**Baĭsalova, M. Zh.** The exact constant in the direct theorem of approximation theory. (Russian. English, Russian and Kazakh summaries) **2001i:41030**
**Berlanga Zubiaga, Ricardo** (*with* Herrera, Ismael) The Gauss theorem for domain decompositions in Sobolev spaces. (English summary)
**Cobzaş, Ştefan** (*with* Muntean, I.) Superdense a.e. unbounded divergence in some approximation processes of analysis. (English summary) **2001j:41031**
**Dinh Dung** On best continuous methods in $n$-term approximation. **2001j:41033**
— On entropy numbers and non-linear approximation by sets of finite pseudo-dimension. **2001k:41027**
**Dobrovol'skiĭ, N. M.** (*with* Manokhin, E. V.) Banach spaces of periodic functions. (Russian. English and Russian summaries) **2001k:46060**
— (*with* Manokhin, E. V.; Rebrova, I. Yu.; Akkuratova, S. V.) On some properties of normed spaces and normed algebras of lattices. (Russian. English and Russian summaries) **2001e:65037**
**Gurova, I. N.** Semidiscretization schemes for the autonomous differential equations with noncompact semigroups using the functionalizing parameter method. (English summary) **2001g:65087**
**Herrera, Ismael** *see* **Berlanga Zubiaga, Ricardo**
**Khlobystov, V. V.** Interpolation polynomials in a Hilbert space, and some extremal problems. (Russian. English and Russian summaries) **2001i:41038**
**Le Gia, T.** (*with* Sloan, Ian H.) The uniform norm of hyperinterpolation on the unit sphere in an arbitrary number of dimensions. (English summary) **2001m:41021**
**Lifanov, I. K.** (*with* Poltavskiĭ, L. N.) Spaces of fractional relations, discrete operators, and their applications. II. (Russian. Russian summary) **2001m:46076**
**Manokhin, E. V.** *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037** *and* **2001k:46060**
**Mitrea, Alexandru I.** ★ Convergence and superdense unbounded divergence in approximation theory. (English summary) **2001g:41001**
**Moskvin, D. B.** (*with* Pavlov, V. A.) An attempt at using the message passing interface for solving a system of Fredholm integral equations of the second kind. (Russian)
**Muntean, I.** *see* **Cobzaş, Ştefan, 2001j:41031**
**Osborne, Michael R.** Variable selection and control in least squares problems. (English summary) **2001j:65018**
**Pavlov, V. A.** *see* **Moskvin, D. B.**
**Poltavskiĭ, L. N.** *see* **Lifanov, I. K., 2001m:46076**
**Ramazanov, M. D.** (*with* Shadimetov, Kh. M.) Weighted optimal cubature formulas in a periodic Sobolev space. (Russian) **2001c:65032**
**Rebrova, I. Yu.** *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
**Ron, Amos** Introduction to shift-invariant spaces. Linear independence. (English summary) (*see* **2001m:65005**)
**Schaback, Robert** Native Hilbert spaces for radial basis functions. I. (English summary) **2001m:41023**
**Schmeisser, Hans-Jürgen** (*with* Sickel, Winfried) Sampling theory and function spaces. (English summary) **2001i:42053**
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**Sickel, Winfried** *see* **Schmeisser, Hans-Jürgen, 2001i:42053**
**Sloan, Ian H.** *see* **Le Gia, T., 2001m:41021**
**Sprengel, Frauke** Interpolation of functions from Besov-type spaces on Gauß-Chebyshev grids. (English summary) **2001g:41031**
**Wu, Bo Ying** The expansion of the function with two unknowns on the reproducing kernel space. (English summary) **2001k:41032**
**Xu, Yuan[1]** Constructing cubature formulae by the method of reproducing kernel. (English summary) **2001e:65043**

## 46N50 Applications in quantum physics

**Beltrametti, Enrico G.** (*with* Bugajski, S.; Varadarajan, V. S.) Extensions of convexity models. (English summary) **2001j:46118**
**Bugajski, S.** *see* **Beltrametti, Enrico G. et al., 2001j:46118**
**Varadarajan, V. S.** *see* **Beltrametti, Enrico G. et al., 2001j:46118**

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**Antoine, J.-P.** (*with* Inoue, Atsushi[2]; Ogi, Hidekazu) Standard generalized vectors and $^*$-automorphism groups of partial $O^*$-algebras. (English summary) **2001e:47110**
**Arveson, William** Interactions in noncommutative dynamics. (English summary) **2001e:46113**
**Asai, Nobuhiro** (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Feynman integrals associated with Albeverio-Høegh-Krohn and Laplace transform potentials. (English summary) **2001k:60091**

**Auletta, Gennaro** ★ Foundations and interpretation of quantum mechanics. (English summary) **2001i:81006**
**Beltrametti, Enrico G.** *see* **Gudder, Stanley et al., 2001c:81007**
**Blanchard, Philippe** (*with* Olkiewicz, Robert) Effectively classical quantum states for open systems. (English summary) **2001j:82068**
**Bollini, C. G.** (*with* Escobar, T.; Rocca, M. C.) Convolution of ultradistributions and field theory. (English summary) **2001c:46076**
**Borchers, H. J.** On revolutionizing quantum field theory with Tomita's modular theory. (English summary) **2001h:81134**
**Brüning, Erwin A. K.** *see* **Nagamachi, S., 2001m:81161**
**Buchholz, Detlev** (*with* Haag, Rudolf) The quest for understanding in relativistic quantum physics. (English summary) **2001f:81093**
— (*with* Dreyer, Olaf; Florig, Martin; Summers, Stephen J.) Geometric modular action and spacetime symmetry groups. (English summary) **2001j:81123**
**Bugajski, S.** (*with* Gudder, Stanley; Pulmannová, Sylvia) Convex effect algebras, state ordered effect algebras, and ordered linear spaces. (English summary) **2001g:81011**
— *see also* **Gudder, Stanley et al., 2001c:81007**
**Chakraborty, Partha Sarathi** (*with* Goswami, Debashish; Sinha, Kalyan B.) A covariant quantum stochastic dilation theory. (English summary) **2001m:46152**
**Charpentier, Éric** Sur l'élimination des "infinis" en théorie quantique des champs: la régularisation zeta à l'épreuve de l'interprétation de Colombeau ou vice versa. (English summary) [The cancellation of infinities in quantum field theory: a comparison of zeta regularization and the Colombeau interpretation] **2001m:81187**
**Chmieliński, Jacek** (*with* Jung, Soon-Mo) The stability of the Wigner equation on a restricted domain. (English summary) **2001m:39070**
**De Paoli, A. L.** (*with* Estevez, M. A.; Rocca, M. C.; Vucetich, H.) Treatment of Gamow states, using tempered ultradistributions. (English summary) **2001c:81218**
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**Dimock, J.** Locality in free string field theory. (English summary) **2001i:81204**
**Dreyer, Olaf** *see* **Buchholz, Detlev et al., 2001j:81123**
**Escobar, T.** *see* **Bollini, C. G. et al., 2001c:46076**
**Estevez, M. A.** *see* **De Paoli, A. L. et al., 2001c:81218** *and* **2001c:81219**
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**Foulis, David J.** A half-century of quantum logic. What have we learned? **2001i:81019**
**Fröhlich, Jürg** (*with* Grandjean, O.; Recknagel, Andreas) Supersymmetric quantum theory and non-commutative geometry. (English summary) **2001d:58025**
**Galaz Fontes, Fernando** (*with* Sontz, Stephen Bruce) On two reverse inequalities in the Segal-Bargmann space. (English summary) **2001h:47058**
**Goswami, Debashish** *see* **Chakraborty, Partha Sarathi et al., 2001m:46152**
**Grandjean, O.** *see* **Fröhlich, Jürg et al., 2001d:58025**
**Grosse, Harald** (*with* Oberguggenberger, Michael; Todorov, I. T.) Generalized functions for quantum fields obeying quadratic exchange relations. (English summary) **2001g:81149**
**Grothaus, Martin** (*with* Streit, Ludwig) Quadratic actions, semi-classical approximation, and delta sequences in Gaussian analysis. (English summary) **2001b:81064**
**Gudder, Stanley** (*with* Pulmannová, Sylvia; Bugajski, S.; Beltrametti, Enrico G.) Convex and linear effect algebras. (English summary) **2001c:81007**
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**Haag, Rudolf** *see* **Buchholz, Detlev, 2001f:81093**
**Hall, Brian C.** Holomorphic methods in analysis and mathematical physics. **2001h:81121**
**Inoue, Atsushi**[2] *see* **Antoine, J.-P. et al., 2001e:47110**
**Jung, Soon-Mo** *see* **Chmieliński, Jacek, 2001m:39070**
**Kananthai, A.** On the multiplicative product of the Dirac-delta distribution on the hypersurface. (Russian summary) **2001b:46059**
**Karpio, Andrzej** Hilbert spaces for massless particles with nonvanishing helicities. (English and French summaries) **2001f:81071**
**Kubo, Izumi** *see* **Asai, Nobuhiro et al., 2001k:60091**
**Kümmerer, Burkhard** Quantum Markov processes driven by white noise. (English summary) **2001d:81034**
**Kuo, Hui-Hsiung** *see* **Asai, Nobuhiro et al., 2001k:60091**
**Lee, Yuh Jia** (*with* Stan, Aurel) An infinite-dimensional Heisenberg uncertainty principle. (English summary) **2001a:28016**
**Lindsay, J. Martin** (*with* Wills, Stephen J.) Fock space Markovian cocycles: their representation, generation, and dilation. (English summary) **2001k:81129**
**Lust-Piquard, Françoise** Riesz transforms on deformed Fock spaces. (English summary) **2001j:46104**
**Matveichuk, M. S.** Measures on effects and on projections in spaces with indefinite metric. (English summary) **2001e:46110**
**Molnár, Lajos** On some automorphisms of the set of effects on Hilbert space. (English summary) **2001g:81109**
**Nagamachi, S.** (*with* Brüning, Erwin A. K.) Hyperfunction quantum field theory: analytic structure, modular aspects, and local observable algebras. (English summary) **2001m:81161**
**Oberguggenberger, Michael** *see* **Grosse, Harald et al., 2001g:81149**
**Ogi, Hidekazu** *see* **Antoine, J.-P. et al., 2001e:47110**
**Olkiewicz, Robert** *see* **Blanchard, Philippe, 2001j:82068**
**(Parisi, Giorgio)** *see* **Auletta, Gennaro, 2001i:81006**
**Parthasarathy, Kalyanapuram Rangachari** Harmonic analysis of the symmetric group on toy Fock spaces. **2001g:81139**
**Pulmannová, Sylvia** *see* **Gudder, Stanley et al., 2001c:81007** *and* **Bugajski, S. et al., 2001g:81011**
**Rainer, Martin** Algebraic quantum theory on manifolds: a Haag-Kastler setting for quantum geometry. (English summary) **2001i:81154**
**Recknagel, Andreas** *see* **Fröhlich, Jürg et al., 2001d:58025**
**Rocca, M. C.** *see* **Bollini, C. G. et al., 2001c:46076**; **De Paoli, A. L. et al., 2001c:81218** *and* **2001c:81219**
**Schlingemann, Dirk** From Euclidean field theory to quantum field theory. (English summary) **2001b:81067**
**Schroer, Bert** (*with* Wiesbrock, H.-W.) Modular theory and geometry. (English summary) **2001c:81103**
**Sherstnev, A. N.** (*with* Turilova, E. A.) Classes of subspaces affiliated with a von Neumann algebra. (English summary) **2001m:46135**
**Sinha, Kalyan B.** *see* **Chakraborty, Partha Sarathi et al., 2001m:46152**
**Skeide, Michael** Quantum stochastic calculus on full Fock modules. (English summary) **2001g:81141**
**Sontz, Stephen Bruce** *see* **Galaz Fontes, Fernando, 2001h:47058**
**Stan, Aurel** *see* **Lee, Yuh Jia, 2001a:28016**
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**Summers, Stephen J.** *see* **Buchholz, Detlev et al., 2001j:81123**
**Thirring, Walter E.** The histories of chaotic quantum systems. **2001j:81079**
**Tkadlec, Josef** Diagrams of Kochen-Specker type constructions. (English summary) **2001h:81031**
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### 46N55 Applications in statistical physics

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**Beltrametti, Enrico G.** (*with* Bugajski, S.; Varadarajan, V. S.) Extensions of convexity models. (English summary) **2001j:46118**
**Brody, Dorje C.** (*with* Hughston, Lane P.) Geometrization of statistical mechanics. (English summary) **2001f:82006**
**Bugajski, S.** *see* **Beltrametti, Enrico G. et al., 2001j:46118**
**Hughston, Lane P.** *see* **Brody, Dorje C., 2001f:82006**
**Maslov, Viktor P.** Asymptotics as $N \to \infty$ for $N$ classical fermions and bosons. (Russian. Russian summary) **2001g:82016**
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**Varadarajan, V. S.** *see* **Beltrametti, Enrico G. et al., 2001j:46118**

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Items with secondary classifications in 46N99

**Arai, Takahiro** *see* **Ishikawa, Shiro et al., 2001i:93005**
**Delvos, Franz-Jürgen** Cardinal approximation in harmonic Hilbert spaces. (English summary) **2001b:41038**
**Grigorchuk, Rostislav I.** (*with* Linnell, Peter A.; Schick, Thomas; Żuk, Andrzej) On a question of Atiyah. (English and French summaries) **2001m:57050**
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## 46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

### 46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

**Boussaf, Kamal** Images of circular filters. (English summary) **2001g:46160**
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**Christol, Gilles** (*with* Mebkhout, Zoghman; Schikhof, W. H.) An application of $c$-compactness. (English summary) **2001h:46130**
**Garibay Bonales, Fernando** (*with* Vera Mendoza, Rigoberto) Duality in non-Archimedean vector spaces. (Spanish) **2001h:46131**
**Kąkol, Jerzy** The Mackey-Arens property for spaces over valued fields. (English summary)
**Katsaras, A. K.** On the strict topology in non-Archimedean spaces of continuous functions. (English summary) **2001m:46166**
**Kochubeĭ, A. N.** Analysis over infinite extensions of a local field. (Russian)
**Lipkina, Z. S.** Locally convex modules. (Russian. English and Russian summaries) **2001i:46117**
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**Mebkhout, Zoghman** *see* **Christol, Gilles et al., 2001h:46130**
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**Ren, Guanshen** On spherical completion of non-Archimedean normed linear spaces. (English summary) **2001b:46120**
**Scărlătescu-Murea, Silvia** Some topological properties of the spectrum of a non-Archimedean $Q$-algebra. (English summary) **2001j:46119**

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— *see also* **Christol, Gilles et al., 2001h:46130**
**Vera Mendoza, Rigoberto** *see* **Garibay Bonales, Fernando, 2001h:46131**
**Verdoodt, Ann** A method for constructing orthonormal bases for non-Archimedean Banach spaces of continuous functions. (English summary) **2001g:46161**

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**Afanas, D. N.** *see* **Choban, M. M., 2001d:46075**
**Altin, Yilmaz** A note on matrix transformations over non-Archimedian fields. (English summary) **2001c:40007**
**Boussaf, Kamal** Strictly analytic $p$-adic functions. (English summary) **2001c:12013**
**Choban, M. M.** (*with* Afanas, D. N.) Topologically complementable spaces and Hahn-Banach theorem. (English summary) **2001d:46075**
**Christol, Gilles** *see* **Remmal, S., 2001c:12012**
**Kalarani, V.** On the summability of pairs of sequences in a nonarchimedean field. (English summary) (*see* **2000j:00035**)
**Keller, H. A.** (*with* Schikhof, W. H.) Probability measures on non-Archimedean inner product spaces. (English summary)
**Khrennikov, Andrei** ★ Non-Archimedean analysis: quantum paradoxes, dynamical systems and biological models. (English summary) **2001h:81004**
**Kiyosawa, Takemitsu** Tauberian operators in $p$-adic analysis. (English summary) **2001d:47121**
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— Non-Archimedean polyhedral decompositions of ultra-uniform spaces. (Russian. English and Russian summaries) **2001j:54032**
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**Remmal, S.** (*with* Christol, Gilles) Irregular $p$-adic linear differential equations. **2001c:12012**
**Schikhof, W. H.** *see* **Keller, H. A.**
**Yasuda, Kumi** Extension of measures to infinite-dimensional spaces over $p$-adic field. **2001m:28027**

## 46S20 Nonstandard functional analysis [see also 03H05]

**Wolff, Manfred P. H.** Functional analysis. **2001b:46118**

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**Kuribayashi, Yukio** On pseudo-Fourier transforms. **2001e:46076**
**Li, Bang-He** (*with* Li, Ya-Qing) Some classes of new generalized functions. (English and Chinese summaries) **2001g:46091**
**Li, Ya-Qing** The harmonic product of $\delta(x_1, \ldots, x_n)$ and $\delta(x_1)$ and two combinatorial identities. (English summary) **2001k:46062**
— *see also* **Li, Bang-He, 2001g:46091**
**Osswald, Horst** Infinitesimals in abstract Wiener spaces. (English summary) **2001m:60184**
**Palmgren, Erik** Constructive nonstandard representations of generalized functions. (English summary) **2001m:03127**

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**Bridges, Douglas S.** Constructive methods in Banach algebra theory. (English summary) **2001g:46162**
**Ishihara, Hajime** Locating subsets of a Hilbert space. (English summary) **2001h:46132**

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**Palmgren, Erik** Constructive nonstandard representations of generalized functions. (English summary) **2001m:03127**
**Richman, Fred** Gleason's theorem has a constructive proof. (English summary) **2001d:03153**
**Washihara, Masako** *see* **Yasugi, Mariko, (2001e:00032)**
**Yasugi, Mariko** (*with* Washihara, Masako) Computability structures in analysis [translation of Sūgaku **50** (1998), no. 2, 130–148; MR 2000b:03219]. (*see* **2001e:00032**)

## 46S40 Fuzzy functional analysis [see also 03E72]

**Buckley, James J.** (*with* Yan, Aimin) Fuzzy functional analysis. I. Basic concepts. (English summary) **2001g:46163**
**Fang, Jin Xuan** *see* **Yan, Cong Hua, 2001k:46120**
**Felbin, C. Kennedy** Finite dimensional fuzzy normed linear space. II. (English summary) **2001b:46122**
**Gang, Jia Tai** $\alpha$-fuzzy vector spaces. (Chinese. English and Chinese summaries)
**Gu, Wen Xiang** *see* **Sun, Shao Quan et al.**
**Hwang, In Ah** *see* **Rhie, Gil Seob, 2001b:46119**
**Li, Ping** *see* **Sun, Shao Quan et al.**
**Nanda, Sudarsan** *see* **Tripathy, B. K., 2001j:46121**
**Rhie, Gil Seob** (*with* Hwang, In Ah) On the fuzzy Hahn-Banach theorem—an analytic form. (English summary) **2001i:46119**
**Sun, Shao Quan** (*with* Gu, Wen Xiang; Li, Ping) $(\in, \in \vee q)$-fuzzy linear spaces. (Chinese. English and Chinese summaries)
**Tripathy, B. K.** (*with* Nanda, Sudarsan) Absolute value of fuzzy real numbers and fuzzy sequence spaces. (English summary) **2001j:46121**
**Wan, Hui Fang** Norms for fuzzy sets. (Chinese. English and Chinese summaries)
**Wu, Cong Xin** *see* **Wu, Jian Rong[2], 2001m:46168**
**Wu, Jian Rong[2]** (*with* Wu, Cong Xin) The $w$-derivatives of fuzzy mappings in Banach spaces. (English summary) **2001m:46168**
**Xiao, Jian Zhong** Compactness and completeness of fuzzy normed linear spaces. (Chinese. English and Chinese summaries) **2001h:46133**
**Yan, Aimin** *see* **Buckley, James J., 2001g:46163**
**Yan, Cong Hua** (*with* Fang, Jin Xuan) $L$-fuzzy locally convex topological vector spaces. (English summary) **2001k:46120**
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**Zhang, Guang Ji** Fuzzifying topological linear spaces. (Chinese. English and Chinese summaries) **2001d:46105**

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**Chen, Minghao** (*with* Saito, Seiji; Ishii, Hiroaki[1]) Representation of fuzzy numbers and fuzzy differential equations. (English summary) (*see* **2001m:90005**)
**Fang, Jin Xuan** (*with* Li, Jun Hua) Fuzzy norm of a linear operator and space of fuzzy bounded linear operators. (English summary) **2001m:47149**
**Ha, Ming Hu** (*with* Xue, Xiao Ping[1]; Li, Guo-cheng) On the extension of the set valued measures and fuzzy number measures in Banach spaces. (English and Chinese summaries) **2001j:28015**
**Ishii, Hiroaki[1]** *see* **Chen, Minghao et al., (2001m:90005)**
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**Xue, Xiao Ping[1]** *see* **Ha, Ming Hu et al., 2001j:28015** *and* **Wu, Jian Rong[2] et al.**

## 46S50 Functional analysis in probabilistic metric linear spaces

**Gong, Ke Zhen** *see* **Xie, Wen Long**
**Xiao, Jian Zhong** The level-set method for the open mapping theorem and the closed graph theorem on Menger spaces. (Chinese. English and Chinese summaries) **2001m:46169**
**Xie, Wen Long** (*with* Gong, Ke Zhen) The transformation of norm-expansion and norm-contraction on M-PN space. (Chinese. English and Chinese summaries)
**Zhang, Min Xian** Uniform convexity in probabilistic normed spaces. (Chinese. English and Chinese summaries)

Items with secondary classifications in 46S50

**Jiang, Exi** Sequences of linear operators on M-PN spaces. (Chinese. English and Chinese summaries) **2001h:47125**
**Zhu, Chuan Xi** Some theorems in the $X$-$M$-$PN$ space. (Chinese. English and Chinese summaries) **2001d:47122**

## 46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [see also 58A50 and 58C50]

Items with secondary classifications in 46S60

**Khrennikov, Andrei** ★ Superanalysis. (English summary) **2001b:58018**

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**Litvinov, G. L.** (*with* Maslov, Viktor P.; Shpiz, G. B.) Tensor products of idempotent semimodules. An algebraic approach. (Russian. Russian summary) **2001g:46164**
**Maslov, Viktor P.** *see* **Litvinov, G. L. et al., 2001g:46164**
**Shpiz, G. B.** *see* **Litvinov, G. L. et al., 2001g:46164**

# 46Txx Nonlinear functional analysis [see also 47Hxx, 47Jxx, 58Cxx, 58Dxx]

Items with secondary classifications in 46Txx

**Rusev, Petŭr K.** Complete systems of Tricomi functions in spaces of holomorphic functions. (English and Russian summaries) (*see* **2001a:00036**)

## 46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [see also 28Cxx, 46G12, 60–XX]

**Uglanov, A. V.** ★ Integration on infinite-dimensional surfaces and its applications. (English summary) **2001c:46129**

Items with secondary classifications in 46T12

**Khlobystov, V. V.** *see* **Makarov, Vladimir L., 2001a:41002**
**Makarov, Vladimir L.** (*with* Khlobystov, V. V.) ★ Основы теории полиномиального операторного интерполирования. (Russian. English and Ukrainian summaries) [Principles of the theory of polynomial operator interpolation] **2001a:41002**

## 46T20 Continuous and differentiable maps [see also 46G05]

**Cao, Jusheng** *see* **Wang, Mao Nan et al., 2001f:46113**
**Shen, Zu He** *see* **Wang, Mao Nan et al., 2001f:46113**
**Wang, Mao Nan** (*with* Cao, Jusheng; Shen, Zu He) Diffeomorphisms between Banach spaces. (English and Chinese summaries) **2001f:46113**

Items with secondary classifications in 46T20

**Arutyunov, A. V.** The implicit function theorem and abnormal points. (Russian) **2001g:49021**
**Coşulschi, Mirel** *see* **Mustafa, Octavian, 2001m:46093**
**Deville, Robert** (*with* Matheron, E.) Pyramidal vectors and smooth functions on Banach spaces. (English summary) **2001b:46024**
**Dubuc, Eduardo J.** (*with* Zilber, Jorge C.) Inverse function theorems for Banach spaces in a topos. (French summary) **2001f:18006**
**Giles, John R.** (*with* Sciffer, Scott) Lipschitz functions on subspaces of Asplund generated spaces are generically virtually pseudo-regular. (English summary) **2001m:46092**
**Lavrent'ev, I. M.** (*with* Šćepanović, Radoje) On locally weakly semicontinuous functionals. (Russian) **2001g:47122**
**Matheron, E.** *see* **Deville, Robert, 2001b:46024**
**Mustafa, Octavian** (*with* Coşulschi, Mirel) Perturbation lemmas in Banach spaces. (English summary) **2001m:46093**
**Šćepanović, Radoje** *see* **Lavrent'ev, I. M., 2001g:47122**
**Sciffer, Scott** *see* **Giles, John R., 2001m:46092**
**Trombetta, Alessandro** An implicit function theorem in complete $F$-normed spaces. (English summary) **2001m:46094**
**Uglanov, A. V.** Calculus of variations on Banach spaces. (Russian. Russian summary) **2001m:49026**
**Zilber, Jorge C.** *see* **Dubuc, Eduardo J., 2001f:18006**

## 46T25 Holomorphic maps [see also 46G20]

Items with secondary classifications in 46T25

**Balboni, Ferrante** The preparation theorem on Banach spaces. (English summary) **2001m:58007**
**Phan Thien Danh** *see* **Son, Duong Luong, 2001e:46083**
**Son, Duong Luong** (*with* Phan Thien Danh) Frechet-valued holomorphic functions on compact sets and the properties $(\overline{DN}, LB_\infty, \Omega)$. (English summary) **2001e:46083**

## 46T30 Distributions and generalized functions on nonlinear spaces [see also 46Fxx]

Items with secondary classifications in 46T30

**Canarutto, Daniel** Smooth bundles of generalized half-densities. (English summary) **2001b:58009**
**Ishi, Hideyuki** Positive Riesz distributions on homogeneous cones. (English summary) **2001g:43014**

## 46T99 None of the above, but in this section

Items with secondary classifications in 46T99

**Benyamini, Yoav** (*with* Lindenstrauss, Joram) ★ Geometric nonlinear functional analysis. Vol. 1. (English summary) **2001b:46001**
**Lindenstrauss, Joram** *see* **Benyamini, Yoav, 2001b:46001**

# 47–XX Operator theory

## 47–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Conway, John B.** ★ A course in operator theory. **2001d:47001**
**Ize, Jorge** Nonlinear analysis. (Spanish) (*see* **2001e:00020**)
**Miklavčič, Milan** ★ Applied functional analysis and partial differential equations. **2001k:47001**

Items with secondary classifications in 47–01

**Bachman, George** (*with* Narici, Lawrence) ★ Functional analysis. (English summary) **2001k:46001**
**Davis, H. Ted** (*with* Thomson, Kendall T.) ★ Linear algebra and linear operators in engineering. (English summary)
**Krishnan, V. K.** ★ Textbook of functional analysis. (English summary) **2001k:46002**
**Narici, Lawrence** *see* **Bachman, George, 2001k:46001**
**Thomson, Kendall T.** *see* **Davis, H. Ted**
**Werner, Dirk** ★ Funktionalanalysis. (German. German summary) [Functional analysis] **2001i:46001**

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**Problems:**
**Functional analysis** *see* **Krishnan, V. K., 2001k:46002**

## 47–02 Research exposition (monographs, survey articles)

**Ball, Joseph A.** (*with* Young, Nicholas J.) Problems on the realization of functions. (English summary) **2001a:47001**
**Egorov, I. E.** (*with* Pyatkov, S. G.; Popov, S. V.[2]) ★ Неклассические дифференциально-операторные уравнения. (Russian. Russian summary) [Nonclassical operator-differential equations] **2001m:47001**
**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Neumann, Michael M.** *see* **Laursen, Kjeld B., 2001k:47002**
**Pisier, Gilles** ★ Similarity problems and completely bounded maps. **2001m:47002**
**Popov, S. V.[2]** *see* **Egorov, I. E. et al., 2001m:47001**
**Pyatkov, S. G.** *see* **Egorov, I. E. et al., 2001m:47001**
**Radjavi, Heydar** (*with* Rosenthal, Peter) ★ Simultaneous triangularization. (English summary) **2001e:47001**
**Rosenthal, Peter** *see* **Radjavi, Heydar, 2001e:47001**
**Young, Nicholas J.** *see* **Ball, Joseph A., 2001a:47001**

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**Lecture Notes in Mathematics** *see* **Pisier, Gilles, 2001m:47002**

Items with secondary classifications in 47–02

**Benyamini, Yoav** (*with* Lindenstrauss, Joram) ★ Geometric nonlinear functional analysis. Vol. 1. (English summary) **2001b:46001**
**Hu, Shouchuan** (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. II. (English summary) **2001g:49001**
**Lindenstrauss, Joram** *see* **Benyamini, Yoav, 2001b:46001**
**Motreanu, Dumitru** (*with* Pavel, Nicolae) ★ Tangency, flow invariance for differential equations, and optimization problems. (English summary) **2001k:34003**
**Papageorgiou, Nikolaos S.** *see* **Hu, Shouchuan, 2001g:49001**
**Pavel, Nicolae** *see* **Motreanu, Dumitru, 2001k:34003**

## 47–03 Historical (must also be assigned at least one classification number from Section 01)

**Mawhin, Jean** Continuation theorems for nonlinear operator equations: the legacy of Leray and Schauder. **2001a:47002**
**Przeworska-Rolewicz, Danuta** Two centuries of the term "algebraic analysis". (English summary) **2001e:47002**
**Synowiec, John A.** Some highlights in the development of algebraic analysis. **2001e:47003**

Items with secondary classifications in 47–03

**Chalendar, Isabelle** (*with* Esterle, Jean) Le problème du sous-espace invariant. [The invariant subspace problem] **2001i:47005**
**Dym, Harry** M. G. Krein's contributions to prediction theory. (English summary) **2001h:60068**
**Esterle, Jean** *see* **Chalendar, Isabelle, 2001i:47005**
**Krein, Mark Grigor'evich** ★ Избранные труды. III. (Russian. Russian and Ukrainian summaries) [Selected works. III] **2001c:01045**
— *see also* **Nudelman, Adolf Abramovich, 2001h:44022** *and* **Dym, Harry, 2001h:60068**
**Nudelman, Adolf Abramovich** M. G. Krein's contribution to the moment problem. (English summary) **2001h:44022**

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**Krein, Mark Grigor'evich** *see* **Krein, Mark Grigor'evich, 2001c:01045**
**Collected Works:**
**Krein, Mark Grigor'evich** *see* **Krein, Mark Grigor'evich, 2001c:01045**

## 47–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 47–04

**Davis, H. Ted** (*with* Thomson, Kendall T.) ★ Linear algebra and linear operators in engineering. (English summary)
**Thomson, Kendall T.** *see* **Davis, H. Ted**

## 47–06 Proceedings, conferences, collections, etc.

**(Adamyan, Vadim M.)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Agarwal, Ravi P.)** *see* **Nonlinear operator theory, 2001f:47001**
**(Balakrishnan, A. V.)** *see* **Semigroups of operators: theory and applications, 2001e:47005**
**(Bercovici, Hari)** *see* **Operator theory and interpolation, 2001b:47002**
**(Foias, Ciprian)** *see* **Operator theory and interpolation, 2001b:47002**
**(Gheondea, Aurelian)** *see* **Operator theoretical methods, 2001d:47003**
**(Gohberg, Israel)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Gologan, R. N.)** *see* **Operator theoretical methods, 2001d:47003**
**(Gorbachuk, M. L.)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Gorbachuk, V. I.)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Kaashoek, Marinus)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Kopachevskiĭ, Nikolaĭ D.)** *see* **Spectral and evolution problems, 2001e:47006**
**(Krein, Mark Grigor'evich)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Langer, Heinz)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Maksudov, Faramaz Gazanfar)** *see* **Spectral theory of operators and its applications, 2001e:47007**
**(Najman, Branko)** *see* **Dedicated to the memory of Branko Najman, 2001d:47002**
**(O'Regan, Donal)** *see* **Nonlinear operator theory, 2001f:47001**
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**(Popov, G. Ya.)** *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
**(Ramm, Alexander G.)** *see* **Operator theory and its applications, 2001a:47005**
**(Shivakumar, P. N.)** *see* **Operator theory and its applications, 2001a:47005**
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**Anniversary:**
**Birth of Krein, Mark Grigor'evich** ★ Differential operators and related topics. Vol. I. **2001a:47003**
— ★ Operator theory and related topics. Vol. II. **2001a:47004**
**Besançon** ★ Semi-groupes d'opérateurs et calcul fonctionnel. [Operator semigroups and functional calculus] **2001b:47001**
**Bloomington, IN** ★ Operator theory and interpolation. **2001b:47002**
**Conference:**
**Operator Theory** ★ Operator theoretical methods. **2001d:47003**
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— ★ Operator theory and related topics. Vol. II. **2001a:47004**
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**Differential operators and related topics** ★ Differential operators and related topics. Vol. I. **2001a:47003**
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**Operator inequalities and related areas** ★ Sayōso no futōshiki to sono shūhen. [Operator inequalities and related areas] **2001e:47004**
**Operator semigroups and functional calculus** ★ Semi-groupes d'opérateurs et calcul fonctionnel. [Operator semigroups and functional calculus] **2001b:47001**
**Operator theoretical methods** ★ Operator theoretical methods. **2001d:47003**
**Operator theory and interpolation** ★ Operator theory and interpolation. **2001b:47002**
**Operator theory and its applications** ★ Operator theory and its applications. **2001a:47005**
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**Operator Inequalities and Related Areas** ★ Sayōso no futōshiki to sono shūhen. [Operator inequalities and related areas] **2001e:47004**
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**(Alpay, Daniel)** *see* **Operator theory, system theory and related topics, 2001j:00035**
**(Cho, Yeol Je)** *see* **Fixed point theory and applications, 2001a:00028**
**(Gil, J. B.)** *see* **Approaches to singular analysis, 2001j:00024**
**(Grieser, Daniel)** *see* **Approaches to singular analysis, 2001j:00024**
**(Hadjisavvas, Nicolas)** *see* **Generalized convexity and generalized monotonicity, 2001k:90005**
**(Khavin, Viktor Petrovich)** *see* **Complex analysis, operators, and related topics, 2001b:00031**
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**Analytic function spaces and operators on them** ★ Kaiseki kansū kūkan to sono ue no sayōso ron. (Japanese) [Analytic function spaces and operators on them] **2001e:46001**
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## 47Axx General theory of linear operators

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**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
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## 47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

**Azarnova, T. V.** *see* **Baskakov, A. G. et al., (2001e:47006)**
**Baillon, Jean-Bernard** (*with* Bruck, Ronald E.) On the random product of orthogonal projections in Hilbert space. **2001g:47001**
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**Bridges, Douglas S.** (*with* Richman, Fred; Schuster, Peter M.) Adjoints, absolute values and polar decompositions. (English summary) **2001h:47001**
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— (*with* Lin, Chia-Shiang; Nakamoto, Ritsuo) Bessel type extension of the Bernstein inequality. (English summary) **2001c:47003**
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**Gorbachuk, M. L.** (*with* Mokrousov, Yu. G.) On the completeness of subspaces of analytic vectors of a closed operator in a Banach space. (Russian)
**Ji, Da Qin** *see* **Wang, Yu Wen, 2001d:47007**
**Lai, Chun Hui** Properties of complete spherical sets. (Chinese. English and Chinese summaries)
**Lešnjak, Gorazd** Semigroups of EP linear transformations. (English summary) **2001b:47003**
**Lin, Chia-Shiang** *see* **Fujii, Masatoshi et al., 2001c:47003**
**Ma, Jipu** Rank theorems of operators between Banach spaces. (English summary) **2001e:47008**
**Marchuk, G. I.** *see* **Vladimirov, V. S., 2001i:47001**
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**Nakamoto, Ritsuo** *see* **Fujii, Masatoshi et al., 2001c:47002** *and* **2001c:47003**
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**Przeworska-Rolewicz, Danuta** Non-Leibniz algebras with logarithms do not have the trigonometric identity. (English summary) **2001e:47009**
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**Rhoades, Billy E.** Norms and spectra of generalized Hausdorff matrices bounded on $l^2$ and $c$. (English summary) **2001k:47004**
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**Gustafson, K. E.** Quantum trigonometry. (English summary) **2001i:81032**
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**Singh, Raj Kishor** (*with* Manhas, J. S.) Singular operators on locally convex spaces. (English summary) **2001i:46080**
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**Tian, Gu-ji** Commutator in abstract Heisenberg's inequality. (English and Chinese summaries) **2001f:47041**

## 47A06 Linear relations (multivalued linear operators)

**Borukhov, Valentin** Decomposition of $D$-regular linear relations in a vector space. (Russian. English summary) **2001b:47006**
**Labrousse, Jean-Philippe** Geodesics in the space of linear relations on a Hilbert space. (English summary) **2001g:47003**
**Lavilledieu, Philippe** (*with* Seeger, Alberto) Eigenvalue stability for multivalued operators. (English summary) **2001g:47004**
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**Alpay, Daniel** (*with* Peretz, Y.) Special realizations for Schur upper triangular operators. (English summary) **2001a:47014**
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## 47A07 Forms (bilinear, sesquilinear, multilinear)

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**Morán, María Dolores** One or two parameter algebraic scattering systems and the commutant lifting theorem. (English summary) **2001h:47011**
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## 47A10 Spectrum, resolvent

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**Albrecht, Ernst** (*with* Müller, Vladimir) Spectrum of interpolated operators. (English summary) **2001j:47001**
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## 47A11 Local spectral properties

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## 47A12 Numerical range, numerical radius

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## 47A13 Several-variable operator theory (spectral, Fredholm, etc.)

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**Lagarias, Jeffrey C.** (*with* Reeds, James A.; Wang, Yang[3]) Orthonormal bases of exponentials for the $n$-cube. **2001h:11104**
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## 47A15 Invariant subspaces

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**Kérchy, László** Isometries with isomorphic invariant subspace lattices. (English summary) **2001k:47015**
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**Kubrusly, Carlos S.** Invariant subspaces and quasiaffine transforms of unitary operators. (English summary) (*see* **2001e:47005**)
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**deLaubenfels, Ralph** (*with* Vu Quoc Phong) Majorized powers of an operator, discrete orbits and hyperinvariant subspaces. (English summary) **2001m:47014**
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**Li, Jue Xian** *see* **Jiang, Chun Lan, 2001m:47059**
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## 47A16 Cyclic and hypercyclic vectors

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## 47A20 Dilations, extensions, compressions

**Arlinskiĭ, Yu. M.** On a class of nondensely defined contractions and their extensions. **2001b:47016**
**Bruzual, Ramón** (*with* Dominguez, Marisela) A proof of the continuous commutant lifting theorem. (English summary) **2001b:47009**
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**Cui, Jian-lian** (*with* Hou, Jin-Chuan) Quadric completion of operator partial matrices. I. (English and Chinese summaries) **2001g:47014**
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**Dritschel, Michael A.** (*with* McCullough, Scott) Model theory for hyponormal contractions. (English summary) **2001c:47013**
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**Han, De Guang** (*with* Larson, David R.) Frames, bases and group representations. (English summary) **2001a:47013**
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**Arlinskiĭ, Yu. M.** On $M$-accretive extensions and restrictions. (English summary) **2001g:47060**
— $M$-accretive extensions of sectorial operators and Krein spaces. (English summary) **2001f:47057**
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**Arov, Damir Z.** (*with* Fritzsche, Bernd; Kirstein, Bernd) On a parametrization formula for the solution set of a completely indeterminate generalized matricial Carathéodory-Fejér problem. (English summary) **2001i:47022**
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**Chalmers, Bruce L.** (*with* Shekhtman, Boris) A two-dimensional Hahn-Banach theorem. (English summary) **2001j:46012**
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**Gorbachuk, M. L.** (*with* Gorbachuk, V. I.) M. G. Krein and extension theory of symmetric operators. Theory of entire operators. (English summary) **2001b:47039**
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**Hassi, Seppo** (*with* Kaltenbäck, Michael; de Snoo, Henk) Selfadjoint extensions of the orthogonal sum of symmetric relations. II. (English summary) **2001f:47040**
**Ismailov, Z. I.** (*with* Karataş, H.) On the theory of normal expansions of differential operators of the first order. (English and Azerbaijani summaries)
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**Kislyakov, S. V.** Extension of operators defined on reflexive subspaces in $L^1$ or $L^1/H^1_0$. (Russian. English and Russian summaries) **2001j:46016**
**(Krein, Mark Grigor'evich)** *see* **Gorbachuk, M. L., 2001b:47039**
**Kuzhel', S. A.** On some properties of unperturbed operators. (English summary) **2001d:47034**
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**Makarov, Konstantin A.** *see* **Gesztesy, Fritz, 2001f:47018**
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**Mel'nikov, E. V.** On the extension of uniformly continuous mappings. (Russian. English summary) **2001g:54013**
**Morán, María Dolores** One or two parameter algebraic scattering systems and the commutant lifting theorem. (English summary) **2001h:47011**
**Paseka, Jan** Hermitian kernels, Hilbert $Q$-modules and Ando dilation. (English summary) **2001h:46110**
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## 47A30 Norms (inequalities, more than one norm, etc.)

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**Goncharenko, Yu. V.** Extreme values of operator norms in spaces with equivalent norms. (English summary) **2001i:47009**

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**Fang, Jin Xuan** On probabilistic norm of a linear operators and space of operators. (Chinese. English and Chinese summaries) **2001h:47124**

**Geiss, Stefan** Absolutely $L_{exp_2}$-summing norms of diagonal operators in $l_r$ and limit orders of $L_{exp}$-summing operators. (English summary) **2001k:47026**

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**Hollenbeck, Brian** (*with* Verbitskiĭ, I. Ė.) Best constants for the Riesz projection. (English summary) **2001i:42010**

**Ishikawa, Yoichiro** (*with* Miura, Yasuhide) Matrix inequalities associated with a selfdual cone. (English summary) **2001b:47060**

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**Karlovich, A. Yu.** On the essential norm of the Cauchy singular integral operator in weighted rearrangement-invariant spaces. (English summary) **2001g:47095**

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**Kosaki, Hideki** *see* **Hiai, Fumio, 2001f:47033**

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**Lin, Chia-Shiang** Inequalities of Reid type and Furuta. (English summary) **2001f:47032**

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**Montes-Rodríguez, Alfonso** Weighted composition operators on weighted Banach spaces of analytic functions. (English summary) **2001j:47026**

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## 47A35 Ergodic theory [see also 28Dxx, 37Axx]

**Bartoszek, Wojciech** On the rate of convergence of random walks on compact spaces. (English summary)

— On unrestricted products of (W) contractions. (English summary) **2001k:47016**

**Bermúdez, Teresa** (*with* González, Manuel; Mbekhta, Mostafa) Operators with an ergodic power. (English summary) **2001f:47009**

**Derriennic, Yves** On the mean ergodic theorem for Cesàro bounded operators. (English summary) **2001j:47006**

**Drissi, Driss** (*with* Zemánek, Jaroslav) Gelfand-Hille theorems for Cesàro means. (English summary) **2001m:47019**

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**Lifshits, Mikhail** (*with* Weber, Michel Jean Georges) Spectral regularization inequalities. (English summary) **2001b:47018**

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**Shaw, Sen-Yen** Ergodic theorems and approximation theorems with rates. (English summary) **2001g:47017**

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**Zaharopol, Radu** Strongly asymptotically stable Frobenius-Perron operators. (English summary) **2001b:47020**

— A local zero-two law and some applications. (English summary) **2001j:47007**

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**Atsushiba, Sachiko** (*with* Takahashi, Wataru) A nonlinear strong ergodic theorem for nonexpansive mappings with compact domains. (English summary) **2001i:47089**

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**Bartoszek, Wojciech** (*with* Chinhanu, C.) Best approximation, invariant measures, and fixed points. (English summary) **2001j:41036**

**Bernardis, A. L.** (*with* Martín-Reyes, F. J.; Sarrión Gavilán, María Dolores) The ergodic Hilbert transform in the Cesàro-$\alpha$ sense for invertible Lamperti operators. **2001e:28025**

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**Bruck, Ronald E.** *see* **Baillon, Jean-Bernard, 2001g:47001**

**Chen, Yong-Zhuo** Path stability and nonlinear weak ergodic theorems. (English summary) **2001b:47087**

**Chinhanu, C.** *see* **Bartoszek, Wojciech, 2001j:41036**

**Choksi, J. R.** (*with* Nadkarni, M. G.) On the question of transformations with simple Lebesgue spectrum. (English summary) **2001c:37008**

**Ding, Jiu** (*with* Zhou, Ai Hui) On the spectrum of Frobenius-Perron operators. (English summary) **2001i:47055**

**Ding, Yi Ming** (*with* Fan, Wen Tao) Discrete time systems with randomly applied stochastic perturbations. (Chinese. English and Chinese summaries) **2001d:37077**

**Djafari Rouhani, Behzad** An ergodic theorem for sequences in a Hilbert space. (English summary) **2001c:47061**

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**El Abdalaoui, El Houcein** A larger class of Ornstein transformations with mixing property. (English summary) **2001f:28022**

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**Ha, M. D.** Classes of operators in ergodic theory satisfying the Gaussian distribution property. (English summary) **2001h:28022**

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**Kornfeld, I. P.** (*with* Lin, Michael) Weak almost periodicity of $L_1$ contractions and coboundaries of non-singular transformations. (English summary) **2001b:28023**

**Kuczumow, Tadeusz** *see* **Kaczor, Wiesława et al., 2001h:47100**

**Lasota, Andrzej** (*with* Myjak, Józef) Generic properties of fractal measures. (English summary)

— (*with* Myjak, Józef) Attractors of multifunctions. (English summary) **2001m:28010**

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**Lin, Michael** Support overlapping $L_1$ contractions and exact non-singular transformations. (English summary) **2001k:28020**

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**Liu, Hsiang** (*with* Shaw, Sen-Yen) Rates of local ergodic limits of $n$-times integrated solution families. (English summary) **2001k:47066**
**Makarov, I. I.** Dynamical entropy for Markov operators. (English summary) **2001g:28032**
**Martín-Reyes, F. J.** *see* **Bernardis, A. L. et al., 2001e:28025** *and* **2001g:28027**
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**Mukhamedov, F. M.** On the Blum-Hanson theorem for quantum quadratic processes. (Russian. Russian summary) **2001i:46104**
**Myjak, Józef** *see* **Lasota, Andrzej, 2001m:28010**
**Nadkarni, M. G.** ★ Spectral theory of dynamical systems. (English summary) **2001d:37001**
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**Podhorodyński, Marian** Stability of multiplicative dynamical systems. (English summary) **2001b:28025**
**Räbiger, Frank** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**
**Reich, Simeon** *see* **Kaczor, Wiesława et al., 2001h:47100**
**Rosenblatt, Joseph M.** *see* **Jones, Roger L., 2001g:28029**
**Rudnicki, Ryszard** Markov operators: applications to diffusion processes and population dynamics. (English summary) **2001f:47075**
— Strong and weak stability of some Markov operators. (English summary) **2001i:47059**
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**Shaw, Sen-Yen** Ergodic theorems with rates for $r$-times integrated solution families. (English summary) **2001g:47078**
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**Stettner, Łukasz** Remarks on ergodic conditions for Markov processes on Polish spaces. (English summary)
**Su, Wei Gang** A condition for generating nonlinear $\omega$-semigroups. (Chinese. English and Chinese summaries) **2001f:47103**
**Suchanecki, Z.** *see* **Antoniou, Ioannis E., 2001b:37008**
**Szarek, Tomasz** Generic properties of learning systems. (English summary) **2001k:60098**
— The dimension of self-similar measures. (English summary) **2001i:37014**
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**Tam, Ping-Kwan** (*with* Tan, Kok-Keong) Mean ergodic theorems for affine operators. (English summary) **2001k:47092**
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**Teichmann, Josef** Hopf's decomposition and recurrent semigroups. (English summary) **2001d:47055**
**Weber, Michel Jean Georges** *see* **Boukhari, Fakhr eddine, 2001d:28007**
**Wolff, Manfred P. H.** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**
**Yoshimoto, Takeshi** Dirichlet method of summability and nonlinear ergodic theorems in Hilbert space. (*see* **2001d:00047**)
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**Memorial Issue:**
**Iwanik, Anzelm** ★ Dedicated to the memory of Anzelm Iwanik.

## 47A40 Scattering theory [see also 34L25, 35P25, 81Uxx]

**Aceff Sánchez, Flor de María** Scattering theory. (Spanish. Spanish summary) **2001f:47010**
**Arov, Damir Z.** Conditions for the similarity of all minimal passive scattering systems with a given scattering matrix. (Russian) **2001m:47021**
**Iftimovici, A.** (*with* Măntoiu, Marius) Limiting absorption principle at critical values for the Dirac operator. (English summary) **2001b:47021**
**Kurasov, Pavel** (*with* Pavlov, Boris S.) Scattering problem with physical behavior of scattering matrix and operator relations. (English summary) **2001d:47016**
**Kuzhel', S. A.** On some properties of abstract wave equation. (English summary) **2001e:47014**
— On the direct and inverse problems in scattering theory for a class of second-order operator-differential equations. (Ukrainian summary) **2001c:47014**
— On inverse problem in the Lax-Phillips scattering theory for a class of second-order operator-differential equations. **2001g:47018**
**Măntoiu, Marius** *see* **Iftimovici, A., 2001b:47021**
**Morán, María Dolores** One or two parameter algebraic scattering systems and the commutant lifting theorem. (English summary) **2001h:47011**
**Pavlov, Boris S.** *see* **Kurasov, Pavel, 2001d:47016**
**Yafaev, D. R.** ★ Математическая теория рассеяния. (Russian. Russian summary) [Mathematical scattering theory] **2001e:47015**

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**Al'beverio, S.** (*with* Kurasov, Pavel) ★ Singular perturbations of differential operators. (English summary) **2001g:47084**
**Artbazar, Galtbayar** (*with* Yajima, Kenji) The $L^p$-continuity of wave operators for one dimensional Schrödinger operators. (English summary) **2001f:34166**
**Boiko, S. S.** (*with* Dubovoĭ, V. K.; Kheifets, A. Ya.) On some extremal problem for contractive harmonic operator functions on the unit disk. (Ukrainian summary) **2001b:47022**
**Boto, João Pedro** Scattering for a wave equation with different spatial asymptotics on the left and right. (English summary) **2001c:35176**
**Burnol, Jean-François** Scattering on the $p$-adic field and a trace formula. **2001g:11079**
**Chen, Hua[1]** *see* **Sleeman, Brian D., 2001d:35154**
**Cooper, Jeffery** Parametric resonance in wave equations with a time-periodic potential. (English summary) **2001f:35233**
**Demuth, Michael** (*with* Sinha, Kalyan B.) Schrödinger operators with empty singularly continuous spectra. (English summary) **2001i:47072**
**Dereziński, J.** (*with* Gérard, C.) Spectral scattering theory of spatially cut-off $P(\varphi)_2$ Hamiltonians. (English summary) **2001j:81125**
**Dubovoĭ, V. K.** *see* **Boiko, S. S. et al., 2001b:47022**
**Fernández, Claudio A.** (*with* Sinha, Kalyan B.) On a theory of resonance in quantum mechanical scattering. **2001h:81267**
**Geĭdarov, A. G.** Existence of wave operators for the two-dimensional Schrödinger operator with a generalized potential. (Russian. English and Azerbaijani summaries) (*see* **2001e:47007**)
**Gérard, C.** *see* **Dereziński, J., 2001j:81125**
**Gesztesy, Fritz** (*with* Makarov, Konstantin A.) Some applications of the spectral shift operator. (English summary) **2001f:47018**
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**Hunziker, W.** (*with* Sigal, Israel Michael; Soffer, A.) Minimal escape velocities. (English summary) **2001g:47129**
— (*with* Sigal, Israel Michael) Time-dependent scattering theory of $N$-body quantum systems. (English summary) **2001k:81347**
**Kalyuzhnyĭ, D. S.** Multiparametric dissipative linear stationary dynamical scattering systems: discrete case. II. Existence of conservative dilations. (English summary) **2001d:47019b**
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**Kita, Naoyasu** $L^p$-$L^q$ asymptotic behaviors of the solutions to the perturbed Schrödinger equations. (English summary) **2001e:81156**
**Konstantinov, A. Yu.** Spectral and scattering theory of some matrix operators related to the Schrödinger equations with potentials depending rationally on spectral parameter. (English summary) **2001d:47069**
**Kurasov, Pavel** *see* **Al'beverio, S., 2001g:47084**
**Kuzhel', S. A.** On some properties of unperturbed operators. (English summary) **2001d:47034**
— On elements of nonstationary scattering theory for a class of operator-differential equations. (Russian)
**Makarov, Konstantin A.** *see* **Gesztesy, Fritz, 2001f:47018** *and* **2001i:47016**
**Melik-Adamyan, P. È.** On the spectrum and $S$-matrix of the Dirac operator. (Russian. English and Russian summaries) **2001g:47080**
**Mennicken, Reinhard** (*with* Motovilov, A. K.) Operator interpretation of resonances generated by some operator matrices. (English summary) **2001e:47012**
**Moller, Jacob Schach** Two-body short-range systems in a time-periodic electric field. **2001h:81268**
— An abstract radiation condition and applications to $N$-body systems. (English summary) **2001g:81268**
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**Nicoleau, François** An inverse scattering problem with the Aharonov-Bohm effect. (English summary) **2001g:81276**
**Nudel'man, M. A.** Passive scattering systems with nonlinear feedback. (Russian. Russian summary) **2001f:47120**
**Parnovskiĭ, L. B.** Scattering matrix for manifolds with conical ends. **2001d:58035**
**Ramm, Alexander G.** *see* **Gesztesy, Fritz, 2001h:47032**
**Sigal, Israel Michael** *see* **Hunziker, W. et al., 2001g:47129** *and* **2001k:81347**
**Sinha, Kalyan B.** *see* **Fernández, Claudio A., 2001h:81267** *and* **Demuth, Michael, 2001i:47072**
**Sjöstrand, Johannes** Resonances for bottles and trace formulae. (English summary) **2001k:58063**
**Sleeman, Brian D.** (*with* Chen, Hua[1]) Acoustic scattering by irregular obstacles. **2001d:35154**
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**Strauss, Y.** (*with* Horwitz, Lawrence P.) Representation of the resonance of a relativistic quantum field theoretical Lee-Friedrichs model in Lax-Phillips scattering theory. (English summary) **2001h:81142**
**Takiguchi, Takashi** An inverse problem for free channel scattering. (English summary) **2001d:81123**
**Velo, G.** *see* **Ginibre, J., 2001g:35205**
**Weder, Ricardo** The $W_{k,p}$-continuity of the Schrödinger wave operators on the line. (English summary) **2001c:34178**
— $L^p$-$L^{\bar{p}}$ estimates for the Schrödinger equation on the line and inverse scattering for the nonlinear Schrödinger equation with a potential. (English summary) **2001e:35135**
**Xia, Jingbo** Trace-class perturbation and strong convergence: wave operators revisited. (English summary) **2001h:47018**
**Yafaev, D. R.** A model in perturbation theory. (English summary) **2001b:81032**
— ★ Scattering theory: some old and new problems. **2001j:81248**
**Yajima, Kenji** $L^p$-boundedness of wave operators for two-dimensional Schrödinger operators. (English summary) **2001i:35232**
— $L^p$-boundedness of wave operators for two-dimensional Schrödinger operators. (*see* **2001f:81011**)
— *see also* **Artbazar, Galtbayar, 2001f:34166**
**Zelditch, Steve** (*with* Zworski, Maciej) Spacing between phase shifts in a simple scattering

problem. (English summary) **2001c:81053**

**Zhang, Bo[1]** Commutator estimates, Besov spaces and scattering problems for the acoustic wave propagation in perturbed stratified fluids. (English summary) **2001c:35181**

**Zworski, Maciej** Poisson formula for resonances in even dimensions. **2001g:47091**

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## 47A45 Canonical models for contractions and nonselfadjoint operators

**Bendoukha, Berrabah** Modèles universels de certaines classes d'opérateurs dans un espace de Hilbert. (English, French and Arabic summaries) [Universal models of certain classes of operators on Hilbert space] **2001i:47011**

**Benhida, Chafiq** (*with* Timotin, Dan) Finite rank perturbations of contractions. (English summary) **2001f:47011**

**Douglas, Ronald G.** (*with* Misra, Gadadhar; Varughese, Cherian) On quotient modules—the case of arbitrary multiplicity. (English summary) **2001f:47012**

**Gamal', M. F.** On regular factorizations of a scalar characteristic function. (Russian. English and Russian summaries) **2001j:47008**

**Hardt, Volker** (*with* Mennicken, Reinhard; Motovilov, A. K.) Factorization theorem for the transfer function of a $2 \times 2$ operator matrix with unbounded couplings. (English summary) (*see* **2001e:47006**)

**Mennicken, Reinhard** *see* **Hardt, Volker et al., (2001e:47006)**

**Misra, Gadadhar** *see* **Douglas, Ronald G. et al., 2001f:47012**

**Moskaleva, Yu. P.** About the structure of complementary component of $K_+^r(M)$-operators. (English summary) (*see* **2001e:47006**)

**Motovilov, A. K.** *see* **Hardt, Volker et al., (2001e:47006)**

**Pata, Vittorino** (*with* Zucchi, Adele) Reflexivity of $C_0$-operators over a multiply connected region. (English summary) **2001g:47019**

**Timotin, Dan** *see* **Benhida, Chafiq, 2001f:47011**

**Varughese, Cherian** *see* **Douglas, Ronald G. et al., 2001f:47012**

**Vasyunin, V. I.** Description of hyperinvariant subspaces of contractions in terms of their characteristic functions. (Russian. English and Russian summaries) **2001i:47012**

**Vorob'eva, L. N.** On universal models of a class of nonselfadjoint operators. (Russian. English summary) **2001e:47016**

**Wang, Zong Yao** (*with* Xue, Yifeng) On the unique finite (SI) decomposition of the Jordan operator $\bigoplus_{i=1}^{n} S(\theta)$ for certain inner function $\theta$. (English summary) **2001d:47017**

**Xue, Yifeng** *see* **Wang, Zong Yao, 2001d:47017**

**Zhu, Kehe** Operators in Cowen-Douglas classes. (English summary) **2001m:47022**

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**Arova, Z. D.** On $J$-unitary nodes with strongly regular $J$-inner characteristic functions in the Hardy class $H_2^{n\times n}$. (English summary) **2001d:47018**

**Biswas, Animikh** (*with* Foias, Ciprian; Frazho, A. E.) Weighted commutant lifting. (English summary) **2001b:47027**

**Borisova, G. S.** A new form of the triangular model of M. S. Livšic for a class of nondissipative operators.

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**Glushkova, N. N.** On multidimensional triangular models of a class of systems of operators with given properties of commutators. (Russian. English summary) **2001c:47010**

**Kubrusly, Carlos S.** Invariant subspaces and quasiaffine transforms of unitary operators. (English summary) (*see* **2001e:47005**)

**Pata, Vittorino** (*with* Zucchi, Adele) Hyperinvariant subspaces of $C_0$-operators over a multiply connected region. (English summary) **2001b:47015**

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## 47A46 Chains (nests) of projections or of invariant subspaces, integrals along chains, etc.

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## 47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.

**Alpay, Daniel** (*with* Peretz, Y.) Special realizations for Schur upper triangular operators. (English summary) **2001a:47014**

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## 47A50 Equations and inequalities involving linear operators, with vector unknowns

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**Nakaguchi, Etsushi** (*with* Yagi, Atsushi) Galerkin approximation for abstract quasilinear elliptic equations of positive type in Hilbert spaces. (English summary) **2001j:65170**
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**Yagi, Atsushi** *see* **Nakaguchi, Etsushi, 2001j:65170**
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**Yang, Guang-Jun** $\alpha$-times integrated semigroups and singular equations. (English summary) **2001k:47067**
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## 47A52 Ill-posed problems, regularization

**Bruckner, Gottfried** (*with* Yamamoto, Masahiro) On a noisy operator equation and the identification of point-sources in the 1-D wave equation. (English summary) **2001c:47017**
**Menikhes, L. D.** (*with* Tanana, V. P.) Finite approximation in the Lavrent′ev method. (Russian. English and Russian summaries) **2001c:47018**
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**Kokurin, M. Yu.** On the necessary conditions for the given convergence of methods of solution for linear ill-posed problems. (English summary)
**Nair, M. Thamban** An iterated regularized approximation procedure for ill-posed operator equations. (English summary)
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**Panyukov, A. V.** An extremal method for solving a parametric inverse problem for a system of linear functional equations. (Russian) **2001j:65099**
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— (*with* Solodkiĭ, S. G.) Optimal discretization of ill-posed problems. (Russian. English and Ukrainian summaries) **2001d:65082**
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**Sizikov, V. S.** Modification of the local regularization method, and the method of suboptimal filtering of the solution of equations of the first kind. (Russian) **2001k:47017**
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## 47A53 (Semi-) Fredholm operators; index theories [see also 58B15, 58J20]

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## 47A55 Perturbation theory

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## 47A56 Functions whose values are linear operators (operator and matrix valued functions, etc., including analytic and meromorphic ones)

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**Eschwé, David** *see* **Binding, Paul A. et al., 2001i:47017**

**Förster, K.-H.** *see* **Azizov, Tomas Ya. et al., 2001g:47023**

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**Kurina, G. A.** (*with* Martynenko, G. V.) On the reducibility of a nonnegative Hamiltonian periodic operator function acting in a real Hilbert space to block-diagonal form. (Russian) **2001i:47018**

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**Martynenko, G. V.** *see* **Kurina, G. A., 2001i:47018**

**Najman, Branko** *see* **Binding, Paul A., 2001f:47020**

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**Tikhonov, A. S.** Inner-outer factorization of $J$-contractive-valued functions. (English summary) **2001g:47024**

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**Jonas, Peter[1]** Operator representations of definitizable functions. (English summary) **2001a:47040**

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**Kheifets, A. Ya.** *see* **Boĭko, S. S. et al., 2001b:47022**

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**Mennicken, Reinhard** *see* **Hardt, Volker et al., (2001e:47006)**

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**Zizler, Peter** *see* **Lancaster, Peter et al., 2001c:15037**

## 47A57 Operator methods in interpolation, moment and extension problems [see also 30E05, 42A70, 42A82, 44A60]

**Agler, Jim** (*with* McCarthy, John E.) Nevanlinna-Pick kernels and localization. (English summary) **2001i:47019**
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**Constantinescu, Tiberiu** (*with* Sayed, Ali H.; Kailath, Thomas) Structured extensions of matrices. (English summary) **2001g:47030**
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**Dominguez, Marisela** A proof of Nehari's theorem through the coefficient of a matricial measure. (English and Spanish summaries) **2001g:47031**
**Dyukarev, Yu. M.** The Stieltjes matrix moment problem and de Branges spaces associated with them. (English summary) **2001f:47024**
**Eschmeier, Jörg** (*with* Patton, Linda; Putinar, Mihai) Carathéodory-Fejér interpolation on polydisks. **2001j:47017**
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**Kheifets, A. Ya.** Parametrization of solutions of the Nehari problem and nonorthogonal dynamics. (English summary) **2001f:47025**
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**Kupin, S.** Abstract interpolation problem and four-block problem. (English, Russian and Ukrainian summaries) **2001h:47020**
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## 47A58 Operator approximation theory

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## 47A60 Functional calculus

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## 47A62 Equations involving linear operators, with operator unknowns

**Akhmedov, A. M.** (*with* Gadzhiev, A. A.) On solutions of some classes of operator equations. (Russian. Russian summary) (*see* **2001f:00019**)
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## 47A63 Operator inequalities

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**Carlen, Eric A.** (*with* Lieb, Elliott H.) A Minkowski type trace inequality and strong subadditivity of quantum entropy. (English summary) **2001f:47029**
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— (*with* Yamazaki, Takeaki; Yanagida, Masahiro) Order preserving operator function via Furuta inequality "$A \geq B \geq 0$ ensures $(A^{r/2}A^pA^{r/2})^{(1+r)/(p+r)} \geq (A^{r/2}B^pA^{r/2})^{(1+r)/(p+r)}$ for $p \geq 1$ and $r \geq 0$". **2001f:47030**
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## 47A65 Structure theory

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## 47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces

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**Lavilledieu, Philippe** (*with* Seeger, Alberto) Eigenvalue stability for multivalued operators. (English summary) **2001g:47004**
**Leung, Chi-Wai** Vector-valued sub-Markov operators and recurrent iterated function systems. (English summary) **2001m:37015**
**Limaye, Balmohan V.** *see* **Alam, Rafikul et al., 2001b:65062** *and* **2001g:65069**
**Lu, Huaixin** (*with* Zhang, YongDe) Eigenvalue and eigenfunction of $n$-mode boson quadratic Hamiltonian. (English summary) **2001b:81162**
**Maleko, E. M.** On the justification of a method for computing the eigenvalues of nuclear operators using trace theory. (Russian. English and Russian summaries) **2001d:47030**
**Müller, Vladimir** Dvoretzky's type result for operators on Banach spaces. (English summary) **2001i:47002**
**Natalini, Pierpaolo** (*with* Noschese, S.; Ricci, Paolo Emilio) An iterative method for computing the eigenvalues of second kind Fredholm operators and applications. (English summary) **2001a:45007**
**Noschese, S.** *see* **Natalini, Pierpaolo et al., 2001a:45007**
**Pincus, Joel** *see* **Carey, Richard, 2001e:47048**
**Ricci, Paolo Emilio** *see* **Natalini, Pierpaolo et al., 2001a:45007**
**Seeger, Alberto** *see* **Lavilledieu, Philippe, 2001g:47004**
**Séré, Eric** *see* **Dolbeault, Jean et al., 2001e:47040**
**Sweers, Guido** *see* **Clément, Philippe, 2001k:35042**
**Tretter, Christiane** Linear operator pencils $A - \lambda B$ with discrete spectrum. (English summary) **2001f:47022**
**Uskova, N. B.** Estimates for spectral projections of perturbed selfadjoint operators. (Russian. Russian summary) **2001h:47017**
**Zhang, YongDe** *see* **Lu, Huaixin, 2001b:81162**

## 47A80 Tensor products of operators [see also 46M05]

**Duggal, B. P.** Tensor products of operators—strong stability and $p$-hyponormality. (English summary) **2001i:47029**

Items with secondary classifications in 47A80

**Liu, Shangping** Generalized functions associated with self-adjoint operators. (English summary) **2001e:47042**
**Reinov, O. I.** On the tensor products of operators in Lebesgue spaces. (English summary) **2001k:47043**

## 47A99 None of the above, but in this section

**Gustafson, K. E.** An extended operator trigonometry. (English summary) **2001j:47022**
**Nguyen Tan Hoa** *see* **Nguyen Van Mau, 2001m:47035**
**Nguyen Van Mau** (*with* Nguyen Tan Hoa) Noether properties of linear operators induced by algebraic elements. (English summary) **2001m:47035**

Items with secondary classifications in 47A99

**Azizov, Tomas Ya.** (*with* Kopachevskiĭ, Nikolai D.; Orlova, L. D.) Evolution and spectral problems related to the problem of small motions of viscoelastic fluid [1 766 018].

(Russian)
**Belokurov, V. V.** (*with* Solov′ëv, Yurĭ Petrovich; Shavgulidze, E. T.) Calculation of functional integrals by means of convergent series. (Russian. English and Russian summaries) **2001h:81129**
**Bondarenko, V. M.** Operators on $(A, *)$-spaces and linear classification problems. (English summary) (*see* **2001b:00029**)
**Brualdi, Richard A.** From the Editor-in-Chief. Erratum to: "Linear operators preserving $t$-congruence on matrices" [Linear Algebra Appl. **175** (1992), 191–211; MR 93h:15004] by Y. P. Hong, R. A. Horn and C.-K. Li. **2001k:15002**
**Daoui, A.** Sur le degré minimum des connexions polynomiales entre les projections dans une algèbre de Banach. (Italian summary) [Minimum degree of polynomial connections between projections in a Banach algebra] **2001e:46089**
**Gheondea, Aurelian** (*with* Ober, Raimund J.) A note on the existence, uniqueness and symmetry of par-balanced realizations. (English summary) **2001g:93025**
**González, Manuel** (*with* Martínez-Abejon, Antonio) Ultrapowers and semigroups of operators. (English summary) **2001g:47070**
**Han, De Guang** (*with* Larson, David R.) Frames, bases and group representations. (English summary) **2001a:47013**
**(Hong, Yoo Pyo)** *see* **Brualdi, Richard A., 2001k:15002**
**(Horn, Roger A.)** *see* **Brualdi, Richard A., 2001k:15002**
**Karabash, I. M.** On conditions for similarity of some differential operators to selfadjoint ones. (Ukrainian summary) **2001j:47045**
**Kopachevskiĭ, Nikolai D.** *see* **Azizov, Tomas Ya. et al.**
**Larson, David R.** *see* **Han, De Guang, 2001a:47013**
**(Li, Chi-Kwong)** *see* **Brualdi, Richard A., 2001k:15002**
**Martínez-Abejon, Antonio** *see* **González, Manuel, 2001g:47070**
**Nagisa, Masaru** (*with* Wada, Shuhei) Simultaneous unitarizability and similarity problem. (English summary) **2001b:46090**
**Ober, Raimund J.** *see* **Gheondea, Aurelian, 2001g:93025**
**de Oliveira, César R.** Autocorrelation scaling and Fourier transform of non-autonomous systems. (English summary) **2001j:81065**
**Orlova, L. D.** *see* **Azizov, Tomas Ya. et al.**
**Shavgulidze, E. T.** *see* **Belokurov, V. V. et al., 2001h:81129**
**Shpiz, G. B.** An eigenvector theorem in idempotent spaces. (Russian) **2001g:47131**
**Solov′ëv, Yurĭ Petrovich** *see* **Belokurov, V. V. et al., 2001h:81129**
**Wada, Shuhei** *see* **Nagisa, Masaru, 2001b:46090**
**Yoshida, Mamoru** On estimate for some bilinear forms. (English summary) **2001m:46024**

# 47Bxx Special classes of linear operators

## 47B06 Riesz operators; eigenvalue distributions; approximation numbers, $s$-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

**Akashi, Shigeo** An entropy theoretic inversion formula for the distribution of proper values of a compact positive operator. (English summary) **2001k:47025**
**Carl, Bernd** Metric entropy conditions for kernels, Schatten classes and eigenvalue problems. (English summary) **2001e:47033**
**Fulga, Andreea** Some operators ideals generated by generalized approximation numbers. (English summary) **2001d:47026**
**Geiss, Stefan** Absolutely $L_{\exp_0}$-summing norms of diagonal operators in $l_r$ and limit orders of $L_{\exp}$-summing operators. (English summary) **2001k:47026**
**Harte, Robin** (*with* Lee, Woo Young) Riesz and Aiena operators. (English summary) **2001d:47027**
**Lee, Woo Young** *see* **Harte, Robin, 2001d:47027**
**Mascioni, Vania** A refinement of Weyl's inequality between eigenvalues and singular numbers. (English summary)
**Monsalve, Osmin** Some characterizations of Riesz operators by means of invariant subspaces. (English summary) **2001a:47021**
**Räbiger, Frank** (*with* Ricker, Werner J.) Aspects of operator theory in hereditarily indecomposable Banach spaces. (English summary) **2001d:47028**
**Ricker, Werner J.** *see* **Räbiger, Frank, 2001d:47028**
**Steinwart, Ingo** Entropy of $C(K)$-valued operators. (English summary) **2001a:47022**

Items with secondary classifications in 47B06

**Asserda, S.** The essential norm of Hankel operator on the Bergman spaces of strongly pseudoconvex domains. (English summary) **2001d:47037**
**Bercovici, Hari** (*with* Kérchy, László; Kovac, R.) Obstructions to diagonalization modulo Lorentz ideals. (English summary) **2001d:47021**
**Braunss, H.-A.** (*with* Junek, H.; Plewnia, E.) Approximation numbers for polynomials. (English summary) **2001g:47112**
**Caetano, António M.** Entropy numbers of embeddings between logarithmic Sobolev spaces. (English summary) **2001i:46044**
**Carl, Bernd** (*with* Defant, Andreas) An elementary approach to an eigenvalue estimate for matrices. (English summary) **2001g:15022**
**Chen, Shouyin** (*with* Li, Luoqing) Realization of Peetre $K$-modulus on the sphere. (English summary) **2001e:42011**
**Cobos, Fernando** (*with* Signes, Teresa) On a result of Peetre about interpolation of operator spaces. (English summary) **2001i:46114**
**Defant, Andreas** *see* **Carl, Bernd, 2001g:15022**
**Harris, Desmond J.** (*with* Lang, Jan) Approximation numbers of Hardy-type operators on trees. (English summary) **2001h:47078**
**Junek, H.** *see* **Braunss, H.-A. et al., 2001g:47112**
**Kérchy, László** *see* **Bercovici, Hari et al., 2001d:47021**
**Kovac, R.** *see* **Bercovici, Hari et al., 2001d:47021**
**Lang, Jan** *see* **Harris, Desmond J., 2001h:47078**
**Leopold, Hans-Gerd** Embeddings for general weighted sequence spaces and entropy numbers. (English summary) **2001c:46064**
— Embeddings and entropy numbers in Besov spaces of generalized smoothness. **2001i:46051**
**Li, Luoqing** *see* **Chen, Shouyin, 2001e:42011**
**Li, Wenbo V.** (*with* Linde, Werner) Approximation, metric entropy and small ball estimates for Gaussian measures. (English summary) **2001c:60059**
— (*with* Linde, Werner) Metric entropy of convex hulls in Hilbert spaces. (English summary) **2001h:60063**
**Linde, Werner** *see* **Li, Wenbo V., 2001c:60059** *and* **2001h:60063**
**Meskhi, A. N.** On the measure of non-compactness and singular numbers for the Volterra integral operators. **2001k:45004**
**Plewnia, E.** *see* **Braunss, H.-A. et al., 2001g:47112**
**Signes, Teresa** *see* **Cobos, Fernando, 2001i:46114**
**Solomyak, Mikhail Zakharovich** Estimates for the approximation numbers of the weighted Riemann-Liouville operator in the spaces $L_p$. **2001d:47077**
**Torki, Mounir** Étude de la sensibilité de toutes les valeurs propres non nulles d'un opérateur compact autoadjoint. (French summary) [Sensitivity analysis of all nonzero eigenvalues of a selfadjoint compact operator] **2001i:47028**

## 47B07 Operators defined by compactness properties

**Dostanić, Milutin R.** Estimates for the norm of powers of Volterra's operator through its singular values. (English summary) **2001m:47036**
**Eveson, S. P.** Compactness criteria and measures of noncompactness in function spaces. **2001m:47037**

Items with secondary classifications in 47B07

**Chen, Zi Li** (*with* Wickstead, A. W.) $L$-weakly and $M$-weakly compact operators. **2001m:47080**
— On a question of Huijsmans-Wickstead concerning band projection of operator lattices. (Chinese. Chinese summary) **2001g:47068**
**Chisholm, R. S.** (*with* Everitt, W. N.; Littlejohn, L. L.) An integral operator inequality with applications. (English summary) **2001a:47049**
**Cobos, Fernando** (*with* Martínez Martínez, Antón) Extreme estimates for interpolated operators by the real method. (English summary) **2001e:46128**
— (*with* Manzano, A.; Martínez Martínez, Antón; Matos, Pedro) On interpolation of strictly singular operators, strictly co-singular operators and related operator ideals. (English summary) **2001j:46113**
**Du, Xinghua** *see* **Wu, Jun De et al., 2001a:46004**
**Everitt, W. N.** *see* **Chisholm, R. S. et al., 2001a:47049**
**John, Kamil** (*with* Werner, Dirk) $M$-ideals of compact operators into $l_p$. (English summary) **2001b:46032**
**Karaev, M. T.** On the Berezin symbol. (Russian. English and Russian summaries) **2001i:47038**
**Littlejohn, L. L.** *see* **Chisholm, R. S. et al., 2001a:47049**
**Malkowsky, Eberhard** (*with* Rakočević, Vladimir) The measure of noncompactness of linear operators between spaces of $m$th-order difference sequences. (English summary) **2001d:47043**
**Manzano, A.** *see* **Cobos, Fernando et al., 2001j:46113**
**Martínez Martínez, Antón** *see* **Cobos, Fernando et al., 2001e:46128** *and* **2001j:46113**
**Matos, Pedro** *see* **Cobos, Fernando et al., 2001j:46113**
**Mayoral, Fernando** Compact sets of compact operators in absence of $l^1$. (English summary) **2001e:46026**
**Panchapagesan, T. V.** A simple proof of the Grothendieck theorem on the Dieudonné property of $C_0(T)$. (English summary) **2001f:46057**
**Prokhorov, Dmitriĭ Vladimirovich** On the boundedness and compactness of a class of integral operators. (English summary) **2001b:47082**
**Rakočević, Vladimir** *see* **Malkowsky, Eberhard, 2001d:47043**
**Schonbek, Tomas P.** Interpolation of compact operators by the complex method and equicontinuity. (English summary) **2001j:46115**
**Torki, Mounir** Étude de la sensibilité de toutes les valeurs propres non nulles d'un opérateur compact autoadjoint. (French summary) [Sensitivity analysis of all nonzero eigenvalues of a selfadjoint compact operator] **2001i:47028**
**Werner, Dirk** *see* **John, Kamil, 2001b:46032**
**Wickstead, A. W.** Positive compact operators on Banach lattices: some loose ends. **2001k:47054**
— *see also* **Chen, Zi Li, 2001m:47080**
**Wu, Jun De** (*with* Wu, Yajuan; Du, Xinghua) Subseries convergence and unconditionally convergence of compact operator series. (English summary) **2001a:46004**
**Wu, Yajuan** *see* **Wu, Jun De et al., 2001a:46004**
**Zhang, Cheng Guo** A kind of Hankel and Toeplitz type operators on product space of $R$ unit disks. (English summary) **2001m:47055**

## 47B10 Operators belonging to operator ideals (nuclear, $p$-summing, in the Schatten-von Neumann classes, etc.) [see also 47L20]

**Antonescu, Cristina** (*with* Pârvulescu, Carmen; Subțire, Anca) A new class of absolutely summing operators. (English summary) **2001d:47029**
**Dykema, Kenneth J.** (*with* Weiss, Gary; Wodzicki, M.) Unitarily invariant trace extensions beyond the trace class. (English summary) **2001c:47025**
**Gohberg, Israel** (*with* Goldberg, Seymour; Krupnik, Naum Yakovlevich) ★ Traces and determinants of linear operators. (English summary) **2001b:47035**
**Goldberg, Seymour** *see* **Gohberg, Israel et al., 2001b:47035**
**Jocić, Danko R.** The Cauchy-Schwarz norm inequality for elementary operators in Schatten ideals. (English summary) **2001i:47030**
**Kiełtyka, Stanisław** (*with* Rabsztyn, Szymon) On definitions of trace class operators on Hilbert spaces. **2001b:47036**
**Krupnik, Naum Yakovlevich** *see* **Gohberg, Israel et al., 2001b:47035**
**Lu, Shi Jie** *see* **Zhou, Qi Sheng, 2001e:47034**

**Maleko, E. M.** On the justification of a method for computing the eigenvalues of nuclear operators using trace theory. (Russian. English and Russian summaries) **2001d:47030**
**Pârvulescu, Carmen** *see* **Antonescu, Cristina et al., 2001d:47029**
**Rabsztyn, Szymon** *see* **Kiełtyka, Stanisław, 2001b:47036**
**Reinov, O. I.** On the continuity of scales of some operator ideals. (English summary) **2001f:47031**
**Subțire, Anca** *see* **Antonescu, Cristina et al., 2001d:47029**
**Weiss, Gary** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Wodzicki, M.** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Zhou, Qi Sheng** (*with* Lu, Shi Jie) A general method for going from matrix trace relations to operator trace relations. II. (Chinese. English and Chinese summaries) **2001e:47034**

Items with secondary classifications in 47B10

**Abramsky, Samson** (*with* Blute, Richard; Panangaden, Prakash) Nuclear and trace ideals in tensored ∗-categories. (English summary) **2001h:47116**
**Blute, Richard** *see* **Abramsky, Samson et al., 2001h:47116**
**Carl, Bernd** Metric entropy conditions for kernels, Schatten classes and eigenvalue problems. (English summary) **2001e:47033**
**Cerdà, Joan** (*with* Mastyło, Mieczysław) The type and cotype of Calderón-Lozanovskiĭ spaces. (English summary) **2001a:46071**
**Cobos, Fernando** Interpolation theory and measures related to operator ideals. (English summary) **2001f:46110**
**Defant, Andreas** (*with* Junge, Marius) A vector-valued Grothendieck inequality with an application to $(p, q)$-completely bounded operators. (English summary) **2001c:46015**
— (*with* Michels, Carsten) Complex interpolation of spaces of operators on $l_1$. (English summary) **2001f:46111**
**Dostanić, Milutin R.** Exact asymptotic behavior of singular values of a class of integral operators. (English summary) **2001b:47080**
**Du, Jingde** (*with* Wong, M. W.) Traces of localization operators. (English and French summaries) **2001c:47053**
**Geiss, Stefan** Absolutely $L_{exp_q}$-summing norms of diagonal operators in $l_r$ and limit orders of $L_{exp}$-summing operators. (English summary) **2001k:47026**
**Harcharras, Asma** Fourier analysis, Schur multipliers on $S^p$ and non-commutative $\Lambda(p)$-sets. (English summary) **2001f:43004**
**Hirzallah, Omar** (*with* Kittaneh, Fuad) Matrix Young inequalities for the Hilbert-Schmidt norm. (English summary) **2001b:15027**
**Junge, Marius** *see* **Defant, Andreas, 2001c:46015**
**Khalil, Roshdi** (*with* Maher, Philip) Spectral approximation in $L(H)$. (English summary) **2001f:47027**
**Kittaneh, Fuad** *see* **Hirzallah, Omar, 2001b:15027**
**Kurasov, Pavel** (*with* Pavlov, Boris S.) Few-body Krein's formula. (English summary) **2001e:47041**
**Kvaratskheliya, V. V.** (*with* Tarieladze, V. I.) The structure of summable sequences and $p$-summing operators. (English summary) **2001g:46019**
**Lauric, Vasile** (*with* Pearcy, Carl M.) Trace-class commutators with trace zero. (English summary) **2001g:47038**
**López Molina, J. A.** (*with* Sánchez Pérez, E. A.) On operator ideals related to $(p, \sigma)$-absolutely continuous operators. (English summary) **2001g:47125**
**Maher, Philip** *see* **Khalil, Roshdi, 2001f:47027**
**Marchena, B.** (*with* Piñeiro, C.) Sequences in the range of a vector measure and Banach spaces satisfying $\Pi_1(X, l_1) = \Pi_2(X, l_1)$. (English summary) **2001m:46029**
**Mastyło, Mieczysław** *see* **Cerdà, Joan, 2001a:46071**
**Matos, Mário C.** Absolutely summing holomorphic mappings. (English summary) **2001c:46086**
**Michels, Carsten** *see* **Defant, Andreas, 2001f:46111**
**Nevanlinna, Olavi** Growth of operator valued meromorphic functions. (English summary) **2001c:30044**
**Panangaden, Prakash** *see* **Abramsky, Samson et al., 2001h:47116**
**Paneque, F.** (*with* Piñeiro, C.) A note on operator Banach spaces containing a complemented copy of $c_0$. (English summary) **2001k:46025**
— (*with* Piñeiro, C.) On Banach spaces $X$ for which $\Pi_2(X, \mathscr{L}_1) = \mathscr{N}_1(X, \mathscr{L}_1)$. (English summary) **2001m:46028**
**Pavlov, Boris S.** *see* **Kurasov, Pavel, 2001e:47041**
**Pearcy, Carl M.** *see* **Lauric, Vasile, 2001g:47038**
**Piñeiro, C.** *see* **Paneque, F., 2001k:46025; 2001m:46028** *and* **Marchena, B., 2001m:46029**
**Reinov, O. I.** On the tensor products of operators in Lebesgue spaces. (English summary) **2001k:47043**
— Approximation properties $AP_s$ and $p$-nuclear operators (the case $0 < s \leq 1$). (Russian. English and Russian summaries) **2001k:46026**
**Russo, Bernard** The small Hankel operator in several complex variables. (English summary) **2001d:47041**
**Sánchez Pérez, E. A.** Absolutely summing operators between Banach spaces of finite cotype. **2001i:46027**
— *see also* **López Molina, J. A., 2001g:47125**
**Stepanov, Vladimir D.** On the lower bounds for Schatten-von Neumann norms of certain Volterra integral operators. (English summary) **2001f:47088**
**Tarieladze, V. I.** *see* **Kvaratskheliya, V. V., 2001g:46019**
**Wong, M. W.** *see* **Du, Jingde, 2001c:47053**
**Xu, Quanhua** Interpolation of Schur multiplier spaces. (English summary) **2001j:46117**
**Yuditskiĭ, P. M.** Analytic perturbation preserves determinacy of infinite index. **2001c:44004**
**Zhang, Cheng Guo** A kind of Hankel and Toeplitz type operators on product space of $R$ unit disks. (English summary) **2001m:47055**
**Zhang, Shao Hui** Toeplitz-type operators on wavelet subspaces in high-dimensional cases. (Chinese. English and Chinese summaries) **2001e:47054**
**Zhao, Jun Xi** Strong decomposability of finite-dimensional star subspaces. (Chinese. Chinese summary) **2001g:47127**

## 47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)

**Ando, Tsuyoshi** Problem of infimum in the positive cone. (English summary) **2001h:47026**
**Benlarbi Delaï, M'hammed** Description de Alg Lat $T/W(T)$ pour certaines extensions d'opérateurs auto-adjoints. (French summary) [Description of Alg Lat $T/W(T)$ for certain extensions of selfadjoint operators] **2001h:47027**
**Hladnik, M.** (*with* Omladič, Matjaž; Radjavi, Heydar) Products of roots of the identity. (English summary) **2001e:47035**
**Ji, You Qing** (*with* Li, Jue Xian) The quasiapproximate $(\mathscr{U} + \mathscr{K})$-invariants of essentially normal operators. **2001e:47036**
**Li, Jue Xian** *see* **Ji, You Qing, 2001e:47036**
**Lu, Dian Chen** (*with* Tian, Li Xin) The Berberian skill in generalized semi-inner product spaces. (Chinese. English and Chinese summaries) **2001h:47028**
**Omladič, Matjaž** *see* **Hladnik, M. et al., 2001e:47035**
**Radjavi, Heydar** *see* **Hladnik, M. et al., 2001e:47035**
**Tian, Li Xin** *see* **Lu, Dian Chen, 2001h:47028**
**Yu, Guo Lin** The para-Hermite operators. (Chinese. English and Chinese summaries) **2001h:47029**

Items with secondary classifications in 47B15

**Andruchow, Esteban** (*with* Corach, Gustavo; Stojanoff, Demetrio) Geometry of oblique projections. (English summary) **2001e:46099**
**Boutet de Monvel-Berthier, Anne-Marie** (*with* Georgescu, Vladimir; Sahbani, Jaouad) Boundary values of regular resolvent families. (English summary) **2001h:47002**
**Corach, Gustavo** *see* **Andruchow, Esteban et al., 2001e:46099**
**Duggal, B. P.** A remark on generalised Putnam-Fuglede theorems. (English summary) **2001e:47061**
**Fujii, Masatoshi** (*with* Katayama, Yoshikazu; Nakamoto, Ritsuo) Generalizations of the Wielandt theorem. (English summary) **2001b:47029**
**Furuta, Takayuki** (*with* Yamazaki, Takeaki; Yanagida, Masahiro) Order preserving operator function via Furuta inequality "$A \geq B \geq 0$ ensures $(A^{r/2}A^pA^{r/2})^{(1+r)/(p+r)} \geq (A^{r/2}B^pA^{r/2})^{(1+r)/(p+r)}$ for $p \geq 1$ and $r \geq 0$". **2001f:47030**
**Georgescu, Vladimir** *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2001h:47002**
**Ghaemi, M. B.** Normal-equivalent operators and operators with dual of scalar-type. (English summary) **2001c:47040**
**Gustafson, K. E.** An extended operator trigonometry. (English summary) **2001j:47022**
**Hunziker, W.** (*with* Sigal, Israel Michael; Soffer, A.) Minimal escape velocities. (English summary) **2001g:47129**
**Ji, You Qing** (*with* Jiang, Chun Lan; Wang, Zong Yao) The $(\mathscr{U} + \mathscr{K})$-orbit of essentially normal operators and compact perturbations of strongly irreducible operators. (English summary) **2001e:47021**
**Jiang, Chun Lan** *see* **Ji, You Qing et al., 2001e:47021**
**Katayama, Yoshikazu** *see* **Fujii, Masatoshi et al., 2001b:47029**
**Kérchy, László** Isometries with isomorphic invariant subspace lattices. (English summary) **2001k:47015**
**Khalil, Roshdi** (*with* Maher, Philip) Spectral approximation in $L(H)$. (English summary) **2001f:47027**
**Maher, Philip** *see* **Khalil, Roshdi, 2001f:47027**
**Nakamoto, Ritsuo** *see* **Fujii, Masatoshi et al., 2001b:47029**
**Okayasu, Takateru** The Löwner-Heinz inequality in Banach ∗-algebras. (English summary) **2001a:46054**
**Poltoratskiĭ, A. G.** Equivalence up to a rank one perturbation. (English summary) **2001j:47013**
**Putinar, Mihai** (*with* Vasilescu, Florian-Horia) Solving moment problems by dimensional extension. **2001c:47023b**
**Sahbani, Jaouad** *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2001h:47002**
**Shargorodskiĭ, E. M.** Geometry of higher order relative spectra and projection methods. (English summary) **2001f:47004**
**Shklyar, A. Ya.** Initial data of solutions of complete second-order operator-differential equations. **2001g:34084**
**Sigal, Israel Michael** *see* **Hunziker, W. et al., 2001g:47129**
**Soffer, A.** *see* **Hunziker, W. et al., 2001g:47129**
**Stochel, Jan** (*with* Szafraniec, Franciszek Hugon) The complex moment problem and subnormality: a polar decomposition approach. (English summary) **2001c:47023a**
**Stojanoff, Demetrio** *see* **Andruchow, Esteban et al., 2001e:46099**
**Szafraniec, Franciszek Hugon** *see* **Stochel, Jan, 2001c:47023a**
**Thompson, Anthony C.** Geometric means of ellipsoids and other convex bodies. (English summary) **2001k:47023**
**Torki, Mounir** Étude de la sensibilité de toutes les valeurs propres non nulles d'un opérateur compact autoadjoint. (French summary) [Sensitivity analysis of all nonzero eigenvalues of a selfadjoint compact operator] **2001i:47028**
**Vasilescu, Florian-Horia** *see* **Putinar, Mihai, 2001c:47023b**
**Wang, Zong Yao** *see* **Ji, You Qing et al., 2001e:47021**
**Yamazaki, Takeaki** *see* **Furuta, Takayuki et al., 2001f:47030**
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## 47B20 Subnormal operators, hyponormal operators, etc.

**Aluthge, Ariyadasa** (*with* Wang, Derming) Putnam's theorems for $w$-hyponormal operators. (English summary) **2001g:47035**
— (*with* Wang, Derming) $w$-hyponormal operators. II. (English summary) **2001b:47032**
**Arora, Pramod** *see* **Arora, Subhash C.**
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**Chō, Muneo** (*with* Huruya, Tadasi; Kim, Young Ok; Lee, Jun Ik) A note on real parts of some semi-hyponormal operators. (English summary) **2001i:47033**
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**Hwang, In Sung** (*with* Lee, Woo Young) The spectrum is continuous on the set of $p$-hyponormal operators. (English summary) **2001g:47037**
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— On some classes of operators by Fujii and Nakamoto related to $p$-hyponormal and paranormal operators. (English summary) **2001e:47038**
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**Lee, Mi Young** (*with* Lee, Sang Hun) On $p$-quasihyponormal contraction operators. (English summary) **2001j:47023**
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**Curto, Raúl E.** (*with* Jung, Il Bong) Quadratically hyponormal weighted shifts with two equal weights. (English summary) **2001h:47046**
**Dritschel, Michael A.** (*with* McCullough, Scott) Model theory for hyponormal contractions. (English summary) **2001c:47013**
**Duggal, B. P.** Tensor products of operators—strong stability and $p$-hyponormality. (English summary) **2001i:47029**
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— A remark on generalised Putnam-Fuglede theorems. (English summary) **2001e:47061**
**Fleige, Andreas** (*with* Hassi, Seppo; de Snoo, Henk) A Kreĭn space approach to representation theorems and generalized Friedrichs extensions. (English summary) **2001m:47078**
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**Kim, An-Hyun** *see* **Han, Young Min, 2001m:47006**
**Kim, Jin Chun** On joint Weyl and Browder spectra. (English summary) **2001c:47012**
**Lee, Hong Youl** The reduced minimum modulus of $2 \times 2$ upper triangular operator matrices. (English summary) **2001j:47002**
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**McCullough, Scott** *see* **Dritschel, Michael A., 2001c:47013**
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**Putinar, Mihai** (*with* Vasilescu, Florian-Horia) Solving moment problems by dimensional extension. **2001c:47023b**
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**Yang, Youngoh** On the closure of dominant operators. (English summary) **2001a:47009**

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## 47B25 Symmetric and selfadjoint operators (unbounded)

**Arutyunyants, G. V.** On the boundedness of some maximal and multiplicative operators. (Russian) **2001k:47028**
**Brasche, J. F.** Inverse spectral theory: nowhere dense singular continuous spectra and Hausdorff dimension of spectra. (English summary) **2001b:47038**
**Dijksma, Aad** (*with* Langer, Heinz; Shondin, Yu. G.; Zeinstra, Chris) Self-adjoint operators with inner singularities and Pontryagin spaces. (English summary) **2001f:47039**
**Dolbeault, Jean** (*with* Esteban, Maria J.; Séré, Eric) On the eigenvalues of operators with gaps. Application to Dirac operators. (English summary) **2001e:47040**

**Esteban, Maria J.** *see* **Dolbeault, Jean et al., 2001e:47040**
**Faddeev, M. M.** *see* **Kiselëv, Aleksandr Vyacheslavovich**
**Gesztesy, Fritz** (*with* Ramm, Alexander G.) An inverse problem for point inhomogeneities. (English summary) **2001h:47032**
**Gorbachuk, M. L.** (*with* Gorbachuk, V. I.) M. G. Krein and extension theory of symmetric operators. Theory of entire operators. (English summary) **2001b:47039**
**Gorbachuk, V. I.** *see* **Gorbachuk, M. L., 2001b:47039**
**Hassi, Seppo** (*with* Kaltenbäck, Michael; de Snoo, Henk) Selfadjoint extensions of the orthogonal sum of symmetric relations. II. (English summary) **2001f:47040**
**Hounkonnou, M. Norbert** The von Neumann theory of self-adjoint extensions of symmetric linear operators: applications to Dirac and Dirac-Coulomb Hamiltonians. (English summary) (*see* **2001d:00038**)
**Jørgensen, Palle E. T.** Off-diagonal terms in symmetric operators. (English summary) **2001a:47025**
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**Karataeva, T. V.** (*with* Koshmanenko, Volodymyr) Generalized sum of operators. (Russian. Russian summary) **2001b:47040**
**Kiselëv, Aleksandr Vyacheslavovich** (*with* Faddeev, M. M.) Similarity problem for a class of nonself-adjoint operators. (English summary)
— On the similarity problem for Friedrichs model operators. (English summary) **2001h:47033**
**Koshmanenko, Volodymyr** ★ Сингулярные билинейные формы в теории возмущений самосопряженных операторов. (Russian. Russian and Ukrainian summaries) [Singular bilinear forms in the theory of perturbations of selfadjoint operators] **2001m:47042**
— ★ Singular quadratic forms in perturbation theory. (English summary) **2001a:47026**
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**Kurasov, Pavel** (*with* Pavlov, Boris S.) Few-body Krein's formula. (English summary) **2001e:47041**
**Kuzhel', S. A.** On some properties of unperturbed operators. (English summary) **2001d:47034**
**Lagodinskiĭ, V. M.** A local square root of a differential operator, and some selfadjoint boundary value problems for a relativistic Schrödinger equation. (Russian) **2001d:47035**
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— (*with* Koshmanenko, Volodymyr) On the problem of the right Hamiltonian under singular form-sum perturbations. (English summary) **2001c:47020**
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**Berezanskiĭ, Yuriĭ Makarovich** The works of M. G. Krein on eigenfunction expansion for selfadjoint operators and their applications and development. (English summary) **2001b:47032**
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**Fraguela Collar, Andrés** Estimates for the eigenvalues of selfadjoint matrix operators. (Russian. English and Russian summaries) **2001k:47005**
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**Konstantinov, A. Yu.** Spectral theory of some matrix differential operators of mixed order. (English and Ukrainian summaries) **2001a:47047**
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**Kuperin, Yu. A.** (*with* Naboko, Sergei N.; Romanov, R. V.) Spectral analysis of a one-velocity transport operator, and a functional model. (Russian. Russian summary) **2001b:47135**
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## 47B32 Operators in reproducing-kernel Hilbert spaces (including de Branges, de Branges-Rovnyak, and other structured spaces) [see also 46E22]

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**Chen, Xiao Man** (*with* Cao, Guang Fu; Guo, Kun Yu) Inner functions and cyclic composition operators on $H^2(B_n)$. (English summary) **2001g:47040**
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**Bourdaud, Gérard** Changes of variable in Besov spaces. II. (English summary) **2001f:46044**
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**Carl, Bernd** Metric entropy conditions for kernels, Schatten classes and eigenvalue problems. (English summary) **2001e:47033**

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## 47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [see also 45P05, 47G10 for other integral operators; see also 32A25, 32M15]

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**Asserda, S.** The essential norm of Hankel operator on the Bergman spaces of strongly pseudoconvex domains. (English summary) **2001d:47037**

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**Simonenko, I. B.** Szegő-type limit theorems for determinants of truncated generalized multidimensional discrete convolutions. (Russian) **2001h:47043**

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## 47B36 Jacobi (tridiagonal) operators (matrices) and generalizations

**Almendral Vázquez, A.** The spectrum of a periodic complex Jacobi matrix revisited. (English summary) **2001f:47048**
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## 47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)

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## 47B38 Operators on function spaces (general)

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## 47B39 Difference operators [see also 39A70]

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## 47B40 Spectral operators, decomposable operators, well-bounded operators, etc.

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**Blunck, Sönke** Perturbation of analytic operators and temporal regularity of discrete heat kernels. (English summary) **2001m:47087**
**Didas, M.** $\mathscr{B}(\mathrm{T}^*)$-subscalar $n$-tuples and the Cesaro operator on $H^p$. (English summary) **2001g:47009**
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**Hinokuma, Takanori** Nonstandard proof of spectral theorem. **2001k:47019**
**deLaubenfels, Ralph** (*with* Vu Quoc Phong) Majorized powers of an operator, discrete orbits and hyperinvariant subspaces. (English summary) **2001m:47014**
**Laursen, Kjeld B.** (*with* Neumann, Michael M.) ★ An introduction to local spectral theory. **2001k:47002**
**Lu, Fang Yan** (*with* Lu, Shi Jie) Rank one operators and triangular algebras. (English summary) **2001b:47129**
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## 47B44 Accretive operators, dissipative operators, etc.

**Arlinskiĭ, Yu. M.** On $M$-accretive extensions and restrictions. (English summary) **2001g:47060**
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**Davies, E. Brian** Wild spectral behaviour of anharmonic oscillators. (English summary) **2001e:47060**
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**Belyĭ, S. V.** (*with* Tsekanovskiĭ, Eduard) On classes of realizable operator-valued $R$-functions. (English summary) **2001g:47028**
**Borisova, G. S.** A new form of the triangular model of M. S. Livšic for a class of nondissipative operators.
**Clément, Philippe** On the method of sums of operators. **2001i:47013**
**Dijksma, Aad** *see* **Azizov, Tomas Ya. et al., 2001g:47023**
**Förster, K.-H.** *see* **Azizov, Tomas Ya. et al., 2001g:47023**
**Glaskova, M. Yu.** *see* **Azizov, Tomas Ya. et al., 2001g:47023**
**Gorbachuk, M. L.** (*with* Gorbachuk, V. I.) On a generalization of the Berezanskiĭ evolution criterion for the selfadjointness of an operator. (Ukrainian. English and Ukrainian summaries) **2001m:47093**
**Gorbachuk, V. I.** *see* **Gorbachuk, M. L., 2001m:47093**
**Jocić, Danko R.** The Cauchy-Schwarz norm inequality for elementary operators in Schatten ideals. (English summary) **2001i:47030**
**Tsekanovskiĭ, Eduard** *see* **Belyĭ, S. V., 2001g:47028**

## 47B47 Commutators, derivations, elementary operators, etc.

**Beĭdar, K. I.** (*with* Brešar, Matej) Applying the density theorem for derivations to range inclusion problems. (English summary) **2001k:47047**
**Brešar, Matej** (*with* Šemrl, Peter) Elementary operators. (English summary) **2001f:47061**
— *see also* **Beĭdar, K. I., 2001k:47047**
**Dong, Qi Xiang** (*with* Huang, Qiang Lian; Li, Gang[1]) On the elementary operator $\Delta(X) = AXB + MXN$ on $C_2(H)$. (Chinese. English and Chinese summaries) **2001c:47041**
**Duggal, B. P.** A remark on generalised Putnam-Fuglede theorems. (English summary) **2001e:47061**
**Huang, Qiang Lian** *see* **Dong, Qi Xiang et al., 2001c:47041**
**Kečkić, Dragoljub** Orthogonality of the range and the kernel of some elementary operators. (English summary) **2001g:47061**
**Li, Gang[1]** *see* **Dong, Qi Xiang et al., 2001c:47041**
**Mecheri, Salah** Commutants and derivation ranges. (English summary) **2001j:47034**
— On the weak closure of the range of a derivation. (English summary) **2001e:47062**
— On the range of a generalized derivation. (English summary) **2001m:47076**
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**Ostrovskiĭ, V. L.** On double commutator relation. (English summary) **2001i:47061**
**Šemrl, Peter** *see* **Brešar, Matej, 2001f:47061**
**Villena Muñoz, Armando R.** Lie derivations on Banach algebras. (English summary) **2001e:47063**

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**Aupetit, Bernard** (*with* Mathieu, Martin) The continuity of Lie homomorphisms. (English summary) **2001a:46050**
**Chang, Ick-Soon** Jordan derivations in noncommutative Banach algebras. (English summary) **2001e:16064**
**Deundyak, V. M.** (*with* Georgiev, K. A.) An outer derivation construction on the algebra of singular integral operators with general coefficients in weighted spaces and its applications. (English summary) **2001f:47118**
**Ding, Xuan Hao** (*with* Tang, Sheng Qiang) The pluriharmonic Toeplitz operators on the polydisk. (English summary) **2001k:47037**
**Doumeki, Atsushi** Error bounds on the Trotter-Kato product formula of relativistic Schrödinger operators with electromagnetic fields. (English summary) **2001j:47039**
**Dykema, Kenneth J.** (*with* Weiss, Gary; Wodzicki, M.) Unitarily invariant trace extensions beyond the trace class. (English summary) **2001c:47025**
**Georgiev, K. A.** *see* **Deundyak, V. M., 2001f:47118**
**Han, Young Min** (*with* Kim, An-Hyun) Weyl spectra of the $\chi$-class operators. (English summary) **2001m:47006**
**Jing, Wu** Local automorphisms of reflexive algebras. (Chinese. English and Chinese summaries) **2001c:47083**
**Jung, Yong-Soo** Some results on Jordan left derivations in Banach algebras. (English summary) **2001h:46081**
— Results on the range of derivations. (English summary) **2001g:46109**
**Kim, An-Hyun** *see* **Han, Young Min, 2001m:47006**
**Kim, Byung-Do** The image of derivations on certain Banach algebras. (English summary) **2001f:46071**
**Lauric, Vasile** (*with* Pearcy, Carl M.) Trace-class commutators with trace zero. (English summary) **2001g:47038**
**Li, Jian Kui** (*with* Pendharkar, Hemant) Derivations of certain operator algebras. (English summary) **2001i:47114**
**Li, Song-Ying** Applications of the singular integral operators in real and complex analysis. (English and Chinese summaries) **2001f:32008**
**Mathieu, Martin** Lie mappings of $C^*$-algebras. (English summary) **2001c:46121**
— *see also* **Aupetit, Bernard, 2001a:46050**
**Matsumoto, Toshiko** (*with* Watanabe, Seiji) Small bound isomorphisms of the domain of a closed $*$-derivation. (English summary) **2001e:46098**
**Pearcy, Carl M.** *see* **Lauric, Vasile, 2001g:47038**
**Pendharkar, Hemant** *see* **Li, Jian Kui, 2001i:47114**
**Peng, Li Zhong** (*with* Wong, M. W.) Compensated compactness and paracommutators. (English summary) **2001g:42035**
**Qiu, Dao Wen** Some of commutators on spaces of homogeneous type. (English summary) **2001j:42015**
**Tang, Sheng Qiang** *see* **Ding, Xuan Hao, 2001k:47037**
**Watanabe, Seiji** *see* **Matsumoto, Toshiko, 2001e:46098**
**Weiss, Gary** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Wodzicki, M.** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Wong, M. W.** *see* **Peng, Li Zhong, 2001g:42035**

## 47B48 Operators on Banach algebras

**Di Benedetto, Fabio** (*with* Serra Capizzano, Stefano) Optimal multilevel matrix algebra operators. (English summary) **2001k:47048**
**Serra Capizzano, Stefano** *see* **Di Benedetto, Fabio, 2001k:47048**

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**Aupetit, Bernard** Spectrum-preserving linear mappings between Banach algebras or Jordan-Banach algebras. **2001h:46078**

— (*with* Mathieu, Martin) The continuity of Lie homomorphisms. (English summary) **2001a:46050**
**Brešar, Matej** (*with* Šemrl, Peter) Elementary operators. (English summary) **2001f:47061**
**Dai, Zheng Gui** Regularity for homogeneous Banach algebras and their multipliers. (Chinese. English and Chinese summaries) **2001e:46095**
**Jung, Yong-Soo** Some results on Jordan left derivations in Banach algebras. (English summary) **2001h:46081**
**Kislyakov, S. V.** The similarity problem for some martingale uniform algebras. (Russian. English and Russian summaries) **2001m:46107**
**Mathieu, Martin** *see* **Aupetit, Bernard, 2001a:46050**
**Miana, Pedro J.** Spectral theory for representations. (English summary) **2001h:46089**
**Przeworska-Rolewicz, Danuta** Linear equations with multiplicative operators in commutative algebras with logarithms. (English summary) **2001m:47024**
**Šemrl, Peter** *see* **Brešar, Matej, 2001f:47061**
**Yoo, Jong-Kwang** On the local spectral theory of multiplication operators. (English summary) **2001f:47056**

## 47B49 Transformers (= operators on spaces of operators)

**Khatskevich, V. A.** (*with* Senderov, V. A.) Basic properties of linear fractional mappings of operator balls: Schroeder's equation. (*see* **2001e:47006**)
**Kim, Sang Og** Linear maps preserving ideals of $C^*$-algebras. (English summary) **2001m:47077**
**Molnár, Lajos** Reflexivity of the automorphism and isometry groups of $C^*$-algebras in BDF theory. (English summary) **2001k:47049**
**Senderov, V. A.** *see* **Khatskevich, V. A., (2001e:47006)**

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**Bell, Jeremy** (*with* Sourour, Ahmed R.) Additive rank-one preserving mappings on triangular matrix algebras. (English summary) **2001d:15003**
**Crist, Randall** Local automorphisms. (English summary) **2001a:47078**
**Daletskiĭ, Yurii L'vovich** Formal operator power series and the noncommutative Taylor formula. **2001h:47006**
**Gasch, Jesus** (*with* Gilbert, John E.) Triangularization of Hankel operators and the bilinear Hilbert transform. (English summary) **2001b:47044**
**Gilbert, John E.** *see* **Gasch, Jesus, 2001b:47044**
**Honda, Tatsuhiro** (*with* Miyagi, Mitsuhiro; Nishihara, Masaru; Yoshida, Mamoru) On continuities of the Borel transforms on the duals of spaces of continuous $n$-homogeneous polynomials on locally convex spaces. (English summary) **2001j:46060**
**Jing, Wu** Additive mappings preserving zero products. (Chinese. English and Chinese summaries) **2001h:47119**
**Khatskevich, V. A.** (*with* Senderov, V. A.) Basic properties of linear fractional mappings of operator balls: Schroeder's equation. **2001d:47050**
**Manuilov, V. M.** Diagonalizing operators in Hilbert modules over $C^*$-algebras. **2001k:46095**
**Miyagi, Mitsuhiro** *see* **Honda, Tatsuhiro et al., 2001j:46060**
**Molnár, Lajos** (*with* Šemrl, Peter) Local automorphisms of the unitary group and the general linear group on a Hilbert space. (English summary) **2001a:47083**
— On isomorphisms of standard operator algebras. (English summary) **2001g:47124**
— A Wigner-type theorem on symmetry transformations in Banach spaces. (English summary) **2001j:47092**
**Nishihara, Masaru** *see* **Honda, Tatsuhiro et al., 2001j:46060**
**Pal, Arupkumar** Regularity of operators on essential extensions of the compacts. (English summary) **2001d:46088**
**Šemrl, Peter** *see* **Molnár, Lajos, 2001a:47083**
**Senderov, V. A.** *see* **Khatskevich, V. A., 2001d:47050**
**Sourour, Ahmed R.** *see* **Bell, Jeremy, 2001d:15003**
**Troitskiĭ, E. V.** Geometry and topology of operators on Hilbert $C^*$-modules. **2001k:46096**
**West, Graeme** Spectral theory and quotients in von Neumann algebras. (English summary) **2001i:46096**
**Yoshida, Mamoru** *see* **Honda, Tatsuhiro et al., 2001j:46060**

## 47B50 Operators on spaces with an indefinite metric [see also 46C50]

**Azizov, Tomas Ya.** (*with* Dijksma, Aad; Khatskevich, Vladimir L.) On the defect of noncontractive operators in Krein spaces: a new formula and some applications. (English summary) **2001f:47062**
— (*with* Kiriakidi, V. K.) Convexity and weak closedness of the image of operator balls under linear-fractional transformation. (Russian) **2001e:47064**
**Bayasgalan, Ts.** The numerical range of linear relations in spaces with an indefinite metric. (English summary)
— The numerical range of linear relations in spaces with an indefinite metric. (English, Russian and Ukrainian summaries) **2001a:47038**
**Ćurgus, Branko** Boundary value problems in Krein spaces. (English summary) **2001j:47035**
**Derkach, Vladimir** On Krein space symmetric linear relations with gaps. (English summary) **2001g:47062**
— On generalized resolvents of Hermitian relations in Krein spaces. **2001c:47042**
— (*with* Hassi, Seppo; de Snoo, Henk) Operator models associated with Kac subclasses of generalized Nevanlinna functions. (English summary) **2001f:47063**
**Dijksma, Aad** *see* **Azizov, Tomas Ya. et al., 2001f:47062**
**Fleige, Andreas** (*with* Najman, Branko) Perturbations of Krein spaces preserving the nonsingularity of the critical point infinity. (English summary) **2001a:47039**
— (*with* Hassi, Seppo; de Snoo, Henk) A Krein space approach to representation theorems and generalized Friedrichs extensions. (English summary) **2001m:47078**
— Operator representations of $N_\infty^+$-functions in a model Krein space $L_\sigma^2$. (English summary) **2001j:47036**
**Hassi, Seppo** *see* **Derkach, Vladimir et al., 2001f:47063** *and* **Fleige, Andreas et al., 2001m:47078**
**Jonas, Peter[1]** Riggings and relatively form bounded perturbations of nonnegative operators in Kreĭn spaces. (English summary) **2001b:47057**
— Operator representations of definitizable functions. (English summary) **2001a:47040**
— On bounded perturbations of operators of Klein-Gordon type. (English summary) **2001m:47079**
**Karabash, I. M.** On differential operators nonsimilar to selfadjoint ones. **2001h:47054**
**Khatskevich, V. A.** (*with* Senderov, V. A.) Basic properties of linear fractional mappings of operator balls: Schroeder's equation. **2001d:47050**
— (*with* Zelenko, Leonid) Bistrict plus-operators in Krein spaces and dichotomous behavior of irreversible dynamical systems. (English summary) **2001b:47058**
— *see also* **Senderov, V. A., (2001e:00012)**
**Khatskevich, Vladimir L.** *see* **Azizov, Tomas Ya. et al., 2001f:47062**
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**Langer, Heinz** (*with* Markus, Alexander S.; Matsaev, V.) Linearization and compact perturbation of self-adjoint analytic operator functions. (English summary) **2001g:47063**
— (*with* Luger, Annemarie) A class of $2 \times 2$-matrix functions. (English summary) **2001h:47055**
**Luger, Annemarie** *see* **Langer, Heinz, 2001h:47055**
**Markus, Alexander S.** *see* **Langer, Heinz et al., 2001g:47063**
**Masharipova, S. Sh.** A functional calculus for Borel functions of selfadjoint operators in the Pontryagin space $\Pi_1$. (Russian. English and Uzbek summaries) **2001k:47050**
**Matsaev, V.** *see* **Langer, Heinz et al., 2001g:47063**
**Molnár, Lajos** Generalization of Wigner's unitary-antiunitary theorem for indefinite inner product spaces. (English summary) **2001g:47064**
**Najman, Branko** (*with* Veselić, Krešimir) Multiplicative perturbations of positive operators in Kreĭn spaces. **2001b:47059**
— *see also* **Fleige, Andreas, 2001a:47039**
**Sasvári, Zoltán** On the number of negative squares of certain functions. (English summary) **2001f:47064**
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**Shkalikov, A. A.** On the existence of invariant subspaces of dissipative operators in a space with an indefinite metric. (Russian. English and Russian summaries) **2001k:47051**
**Shondin, Yu. G.** Singular point perturbations of an odd operator in a $Z_2$-graded space. (Russian. Russian summary) **2001c:47043**
**de Snoo, Henk** *see* **Derkach, Vladimir et al., 2001f:47063** *and* **Fleige, Andreas et al., 2001m:47078**
**Su, Gui Xian** *see* **Yang, Hai Tao[1]**
**Veselić, Krešimir** *see* **Najman, Branko, 2001b:47059**
**Woracek, Harald** Resolvent matrices in degenerated inner product spaces. **2001g:47065**
**Yang, Hai Tao[1]** (*with* Su, Gui Xian) Properties of measurable operator fields in $\pi$ spaces. (Chinese. English and Chinese summaries)
**Yang, Mee Hyea** Factorization in Kreĭn spaces. (English summary) **2001d:47051**
**Zelenko, Leonid** *see* **Khatskevich, V. A., 2001b:47058**

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**Amirshadyan, A. A.** Degenerated interpolation in generalized Nevanlinna and Stieltjes classes. **2001c:47021**
**Chahrour, Ayham** On the spectrum of the Schrödinger operator with periodic surface potential. (English summary) **2001k:81059**
**Chun, Joohwan** *see* **Kim, Kyungsup, 2001h:93027**
**Constantinescu, Tiberiu** (*with* Gheondea, Aurelian) Kolmogorov decompositions and the realization of time dependent systems. (English summary) **2001h:47123**
— (*with* Gheondea, Aurelian) Invariant Hermitian kernels and their Kolmogorov decompositions. (English and French summaries) **2001m:46043**
**Ćurgus, Branko** (*with* Najman, Branko) Positive differential operators in the Krein space $L^2(\mathbf{R}^+)$. (English summary) **2001a:47045**
**Dijksma, Aad** (*with* Langer, Heinz; Shondin, Yu. G.; Zeinstra, Chris) Self-adjoint operators with inner singularities and Pontryagin spaces. (English summary) **2001f:47039**
— (*with* Shondin, Yu. G.) Singular point-like perturbations of the Bessel operator in a Pontryagin space. (English summary) **2001g:47079**
— *see also* **Alpay, Daniel et al., 2001g:47026**
**Duma, Adrian** Sums of contractions. (English summary) **2001m:47129**
**Egorov, I. E.** (*with* Pyatkov, S. G.; Popov, S. V.[2]) ★ Неклассические дифференциально-операторные уравнения. (Russian. Russian summary) [Nonclassical operator-differential equations] **2001m:47001**
**Ĕtkin, Anatolii** On an abstract boundary value problem with the eigenvalue parameter in the boundary condition. (English summary) **2001e:47032**
**Faddeev, M. M.** (*with* Shterenberg, R. G.) On the similarity of some singular differential operators to selfadjoint operators. (Russian. English and Russian summaries) **2001k:47068**
**Gheondea, Aurelian** *see* **Constantinescu, Tiberiu, 2001h:47123** *and* **2001m:46043**
**Hassi, Seppo** (*with* de Snoo, Henk; Woracek, Harald) Some interpolation problems of Nevanlinna-Pick type. The Kreĭn-Langer method. (English summary) **2001c:47022**
**He, Zu Guo** *see* **Wang, Xiao Xia, 2001h:47070**
**Khatskevich, V. A.** (*with* Senderov, V. A.) Basic properties of linear fractional mappings of operator balls: Schroeder's equation. (*see* **2001e:47006**)
**Kim, Kyungsup** (*with* Chun, Joohwan) Convergence behavior of the Schur recursion in the Krein space for the $J$-spectral factorization. (English summary) **2001h:93027**
**Langer, Heinz** *see* **Dijksma, Aad et al., 2001f:47039** *and* **Alpay, Daniel et al., 2001g:47026**
**Liu, Zeng Rong** *see* **Tian, Li Xin, 2001f:47060**
**Najman, Branko** *see* **Ćurgus, Branko, 2001a:47045** *and* **Dedicated to the memory of Branko Najman, 2001d:47002**
**Nitz, Oleg** Generalized resolvents of isometric linear relations in Pontryagin spaces. I. Foundations. (English summary) **2001g:47032**
**Popov, S. V.[2]** *see* **Egorov, I. E. et al., 2001m:47001**
**Pyatkov, S. G.** *see* **Egorov, I. E. et al., 2001m:47001**

**Sakhnovich, L. A.** Spectral problems on half-axis. (English summary) **2001c:34173**
**Senderov, V. A.** *see* **Khatskevich, V. A., (2001e:47006)**
**Shondin, Yu. G.** *see* **Dijksma, Aad et al., 2001f:47039** *and* **2001g:47079**
**Shterenberg, R. G.** *see* **Faddeev, M. M., 2001k:47068**
**Slapničar, Ivan** *see* **Veselić, Krešimir, 2001e:47013**
**de Snoo, Henk** *see* **Hassi, Seppo et al., 2001c:47022**
**Tian, Li Xin** (*with* Liu, Zeng Rong) $p$ dissipative operator. (English summary) **2001f:47060**
**Tikhonov, A. S.** Inner-outer factorization of $J$-contractive-valued functions. (English summary) **2001g:47024**
**Veselić, Krešimir** (*with* Slapničar, Ivan) On spectral condition of $J$-Hermitian operators. (English summary) **2001e:47013**
**Wang, Xiao Xia** (*with* He, Zu Guo) $J$-selfadjoint extensions for $J$-symmetric ordinary differential operators in a vector-valued function space. (Chinese. English and Chinese summaries) **2001h:47070**
**Woracek, Harald** *see* **Hassi, Seppo et al., 2001c:47022**
**Yang, Hai Tao[1]** Decomposition for commutative $J$-von Neumann algebras. (Chinese. English and Chinese summaries)
**Zeinstra, Chris** *see* **Dijksma, Aad et al., 2001f:47039**

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## 47B60 Operators on ordered spaces

**Chen, Zi Li** (*with* Wickstead, A. W.) $L$-weakly and $M$-weakly compact operators. **2001m:47080**
— The regular norm of operators on Banach lattices. (Chinese. English and Chinese summaries) **2001d:47052**
**Dăneț, Nicolae** The Riesz decomposition property for the space of regular operators. (English summary) **2001e:47065**
**Emel'yanov, Eduard Yu.** *see* **Gorokhova, S. G., 2001g:47066**
**Gorokhova, S. G.** (*with* Emel'yanov, Eduard Yu.) A sufficient condition for the order boundedness of the attractor of a positive ergodic operator acting in a Banach lattice. (Russian. Russian summary) **2001g:47066**
**Herzog, Gerd** (*with* Lemmert, Roland) On ordered spaces of polynomials. (English summary) **2001h:47056**
**Kalauch, A.** (*with* Weber, M. R.) On a certain maximum principle for positively invertible matrices and operators in an ordered normed space. **2001g:47067**
**Kusraev, A. G.** Majorizable operators. (Russian. Russian summary) **2001j:47037**
**Lemmert, Roland** *see* **Herzog, Gerd, 2001h:47056**
**Štrkalj, Željko** A theorem on products of non-commuting sectorial operators. **2001m:47081**
**Turan, Bahri** On $f$-linearity and $f$-orthomorphisms. (English summary) **2001k:47052**
**Weber, M. R.** *see* **Kalauch, A., 2001g:47067**
**Wickstead, A. W.** *see* **Chen, Zi Li, 2001m:47080**

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**Abramovich, Yuri A.** (*with* Aliprantis, Charalambos D.; Burkinshaw, O.; Wickstead, A. W.) A characterization of compact-friendly multiplication operators. (English summary) **2001m:47062**
**Aliprantis, Charalambos D.** *see* **Abramovich, Yuri A. et al., 2001m:47062**
**Burkinshaw, O.** *see* **Abramovich, Yuri A. et al., 2001m:47062**
**Drnovšek, Roman** Common invariant subspaces for collections of operators. (English summary) **2001m:47012**
**García del Amo, A.** (*with* Hernández, Francisco L.; Sánchez, Víctor M.; Semënov, E. M.) Disjointly strictly-singular inclusions between rearrangement invariant spaces. **2001e:46046**
**Gutman, A. E.** Banach fiberings in the theory of lattice-normed spaces. (Russian. Russian summary) **2001k:46033**
**Hernández, Francisco L.** *see* **García del Amo, A. et al., 2001e:46046**
**Hill, Richard D.** *see* **Thornburg, Mark L., 2001b:15005**
**Kusraev, A. G.** (*with* Pliev, M. A.) Orthogonally additive majorized operators. (Russian) **2001i:47087**
**Pliev, M. A.** *see* **Kusraev, A. G., 2001i:47087**
**Räbiger, Frank** (*with* Wolff, Manfred P. H.) Spectral and asymptotic properties of resolvent-dominated operators. (English summary) **2001b:47009**
**Sánchez, Víctor M.** *see* **García del Amo, A. et al., 2001e:46046**
**Semënov, E. M.** *see* **García del Amo, A. et al., 2001e:46046**
**Thornburg, Mark L.** (*with* Hill, Richard D.) Order intervals of matrices. (English summary) **2001b:15005**
**Wickstead, A. W.** *see* **Abramovich, Yuri A. et al., 2001m:47062**
**Wolff, Manfred P. H.** *see* **Räbiger, Frank, 2001b:47009**

## 47B65 Positive operators and order-bounded operators

**Abramovich, Yuri A.** (*with* Kitover, A.) A characterization of operators preserving disjointness in terms of their inverse. (English summary) **2001m:47082**
**Alpay, Şafak** (*with* Turan, Bahri) On the commutant of the ideal centre. (English summary) **2001d:47053**
**Chen, Zi Li** The lattices of regular operators on Banach lattices. (Chinese. English and Chinese summaries) **2001d:47054**
— On a question of Huijsmans-Wickstead concerning band projection of operator lattices. (Chinese. Chinese summary) **2001g:47068**
**Drnovšek, Roman** Triangularizing semigroups of positive operators on an atomic normed Riesz space. (English summary) **2001i:47062**
**Eden, Alp** A remark on the asymptotic properties of positive homogeneous maps on homogeneous lattices. (English summary) **2001i:47063**
**Emel'yanov, Eduard Yu.** (*with* Räbiger, Frank; Wolff, Manfred P. H.) Asymptotic behavior of positive operators on Banach lattices. **2001k:47053**
**Gök, Ömer** On reducibility in Banach spaces. (English summary) **2001a:47041**
**Ishikawa, Yoichiro** (*with* Miura, Yasuhide) Matrix inequalities associated with a selfdual cone. (English summary) **2001b:47060**
**Jahandideh, M. T.** On the ideal-reducibility of semigroups of positive operators on Banach lattices. (English summary) **2001f:47065**
**Kitover, A.** *see* **Abramovich, Yuri A., 2001m:47082**
**Miura, Yasuhide** *see* **Ishikawa, Yoichiro, 2001b:47060**
**Nussbaum, Roger** Periodic points of positive linear operators and Perron-Frobenius operators. (English summary) **2001m:47083**
**de Pagter, B.** (*with* Schep, A. R.) Band decompositions for disjointness preserving operators. **2001m:47084**
**Räbiger, Frank** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**
**Schep, A. R.** *see* **de Pagter, B., 2001m:47084**
**Teichmann, Josef** Hopf's decomposition and recurrent semigroups. (English summary) **2001d:47055**
**Turan, Bahri** *see* **Alpay, Şafak, 2001d:47053**
**Wickstead, A. W.** AL-spaces and AM-spaces of operators. **2001j:47038**
— Positive compact operators on Banach lattices: some loose ends. **2001k:47054**
**Wolff, Manfred P. H.** *see* **Emel'yanov, Eduard Yu. et al., 2001k:47053**

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**Biberdorf, Ê. A.** (*with* Väth, Martin) On the spectrum of orthomorphisms and Barbashin operators. (English summary) **2001h:45010**
**Cho, Yeol Je** (*with* Dragomir, Sever Silvestru; Kim, Seong Sik; Pearce, Charles E. M.) Cauchy-Schwarz functionals. (English summary) **2001j:46048**
**Dragomir, Sever Silvestru** *see* **Cho, Yeol Je et al., 2001j:46048**
**Jang, Ruey-Jen** Geometric eigenspace of the generator of $C_0$-semigroup of positive operators. (English summary) **2001m:47091**
**Kim, Seong Sik** *see* **Cho, Yeol Je et al., 2001j:46048**
**Kokilashvili, Vakhtang** (*with* Meskhi, A. N.) Norms of positive operators on some cones of functions defined on measure spaces. (English and Georgian summaries) **2001h:46039**
**Kusraev, A. G.** Majorizable operators. (Russian. Russian summary) **2001j:47037**
**Latrach, Khalid** Compactness properties for perturbed semigroups and application to transport equation. (English summary) **2001f:47070**
**Meskhi, A. N.** *see* **Kokilashvili, Vakhtang, 2001h:46039**
**Pearce, Charles E. M.** *see* **Cho, Yeol Je et al., 2001j:46048**
**Sato, Ryotaro** A general differentiation theorem for superadditive processes. (English summary) **2001b:47019**
**Schneider, Hans** *see* **Tam, Bit-Shun, 2001f:15024**
**Tam, Bit-Shun** (*with* Schneider, Hans) On the invariant faces associated with a cone-preserving map. (English summary) **2001f:15024**
**Troitskiĭ, V. G.** On the modulus of C. J. Read's operator. (English summary) **2001a:47011**
**Väth, Martin** *see* **Biberdorf, Ê. A., 2001h:45010**
**Zaharopol, Radu** Strongly asymptotically stable Frobenius-Perron operators. (English summary) **2001b:47020**
**Zhuraev, I. M.** Properties of mappings that act in a space with an order unit. (Russian. English and Uzbek summaries) **2001m:46030**

## 47B80 Random operators [see also 60H25]

**Jakšić, Vojkan** (*with* Last, Yoram) Spectral structure of Anderson type Hamiltonians. (English summary) **2001g:47069**
**Kostrykin, Vadim** (*with* Schrader, Robert) The density of states and the spectral shift density of random Schrödinger operators. (English summary) **2001d:47056**
**Last, Yoram** *see* **Jakšić, Vojkan, 2001g:47069**
**Schrader, Robert** *see* **Kostrykin, Vadim, 2001d:47056**

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**Aizenman, Michael** (*with* Schenker, Jeffrey H.; Friedrich, Roland M.; Hundertmark, Dirk) Constructive fractional-moment criteria for localization in random operators. (English summary) **2001j:82053**
**Bentosela, François** (*with* Briet, P.) Stark resonances for random potentials of Anderson type. (English and French summaries) **2001b:82026**
**Briet, P.** *see* **Bentosela, François, 2001b:82026**
**Chalker, J. T.** *see* **Mehlig, B., 2001g:82059**
**Cicuta, Giovanni M.** (*with* Contedini, M.; Molinari, Luca) Non-Hermitian tridiagonal random matrices and returns to the origin of a random walk. (English summary) **2001f:82031**
**Contedini, M.** *see* **Cicuta, Giovanni M. et al., 2001f:82031**
**Damanik, David** (*with* Lenz, Daniel H.) Uniform spectral properties of one-dimensional quasicrystals. II. The Lyapunov exponent. (English summary) **2001g:81060**
**Dorogovtsev, A. Ya.** Stability of periodic solutions of operator equations with perturbation coefficients. (English summary) **2001g:60163**
**Friedrich, Roland M.** *see* **Aizenman, Michael et al., 2001j:82053**
**Gīrko, V. L.** Strong law and canonical equation for normalized spectral functions of non self adjoint random Jacobi matrices. (English summary) **2001h:60047**
**Hundertmark, Dirk** On the time-dependent approach to Anderson localization. (English summary) **2001c:82038**
— *see also* **Aizenman, Michael et al., 2001j:82053**
**Klopp, Frédéric** Precise high energy asymptotics for the integrated density of states of an unbounded random Jacobi matrix. (English summary) **2001h:82045**
**Lenz, Daniel H.** Random operators and crossed products. (English summary) **2001b:46108**
— *see also* **Damanik, David, 2001g:81060**
**Mehlig, B.** (*with* Chalker, J. T.) Statistical properties of eigenvectors in non-Hermitian Gaussian random matrix ensembles. (English summary) **2001g:82059**
**Molinari, Luca** *see* **Cicuta, Giovanni M. et al., 2001f:82031**

**Mukhamedov, F. M.** On infinite-dimensional quadratic Volterra operators. (Russian)
**Pulé, Joseph V.** (*with* Scrowston, M.) The spectrum of a magnetic Schrödinger operator with randomly located delta impurities. (English summary) **2001h:82046**
**Savchenko, S. V.** On the ground state of free and random discrete Hamiltonians perturbed by an operator of rank one for a critical value of the coupling constant. (Russian. Russian summary) **2001b:82007**
**Schenker, Jeffrey H.** *see* **Aizenman, Michael et al., 2001j:82053**
**Scrowston, M.** *see* **Pulé, Joseph V., 2001h:82046**
**Sinaĭ, Ya. G.** Anomalous transport in almost periodic media. (Russian) **2001h:82039**
**Stolz, Günter** Non-monotonic random Schrödinger operators: the Anderson model. (English summary) **2001g:82063**
**Wang, Wei-Min** Supersymmetry and density of states of the magnetic Schrödinger operator with a random potential revisited. (English summary) **2001f:35102**

## 47B99 None of the above, but in this section

**Bondarenko, V. M.** Operators on $(A, *)$-spaces and linear classification problems. (English summary) (*see* **2001b:00029**)
**Choudhary, B.** A note on boundedness of superposition operators on sequence spaces. (English summary) **2001k:47055**
**Gubreev, G. M.** Unconditional bases of Hilbert spaces, composed of values of entire vector functions of exponential type. (Russian) **2001c:47044**
**Sebe, Gabriela Ileana** Operator-theoretical treatment of regular continued fractions. (English and Romanian summaries) **2001i:47064**

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**Aldroubi, Akram** (*with* Basser, Peter) Reconstruction of vector and tensor fields from sampled discrete data. (English summary) **2001b:42042**
**Basser, Peter** *see* **Aldroubi, Akram, 2001b:42042**
**Bauschke, Heinz H.** (*with* Borwein, Jonathan M.) Maximal monotonicity of dense type, local maximal monotonicity, and monotonicity of the conjugate are all the same for continuous linear operators. (English summary) **2001j:47059**
**Bermúdez, Teresa** (*with* Martinón, Antonio) Chain-finite operators and locally chain-finite operators. **2001d:47010**
**—** (*with* Miller, Vivien G.) On operators $T$ such that $f(T)$ is hypercyclic.
**Borwein, Jonathan M.** *see* **Bauschke, Heinz H., 2001j:47059**
**Cabello Sánchez, Alberto** (*with* Cabello Sánchez, Félix) Maximal norms on Banach spaces of continuous functions. Corrigendum to: "Orthonormal systems in Banach spaces and their applications" [Math. Proc. Cambridge Philos. Soc. **79** (1976), no. 3, 493–510; MR **53** #6291] by N. J. Kalton and G. V. Wood. **2001c:46017**
**Cabello Sánchez, Félix** *see* **Cabello Sánchez, Alberto, 2001c:46017**
**Chalmers, Bruce L.** (*with* Cottin, C.; Shekhtman, Boris) Minimal Boolean sum and blending-type projections and extensions. (English summary) **2001h:46007**
**—** (*with* Shekhtman, Boris) Some estimates of action constants and related parameters. (English summary) **2001h:46008**
**Cottin, C.** *see* **Chalmers, Bruce L. et al., 2001h:46007**
**Decarreau, Andrée** (*with* Emamirad, Hassan; Intissar, Abdelkader) Chaoticité de l'opérateur de Gribov dans l'espace de Bargmann. (English and French summaries) [Chaoticity of Gribov's operator in the Bargmann space] **2001m:81094**
**Emamirad, Hassan** *see* **Decarreau, Andrée et al., 2001m:81094**
**Federbush, Paul** $e$ to the $A$, in a new way. **2001m:42042**
**Galinskiĭ, D. V.** Representations of $*$-algebras generated by orthogonal projections satisfying a linear relation. (English summary) **2001d:47119**
**Harmer, M.** Hermitian symplectic geometry and the factorization of the scattering matrix on graphs. (English summary) **2001m:05165**
**Intissar, Abdelkader** *see* **Decarreau, Andrée et al., 2001m:81094**
**(Kalton, N. J.)** *see* **Cabello Sánchez, Alberto, 2001c:46017**
**Martinón, Antonio** *see* **Bermúdez, Teresa, 2001d:47010**
**Mastylo, Mieczysław** Interpolation orbit functors and reiteration theorems. (English summary) **2001f:46112**
**Mennicken, Reinhard** (*with* Motovilov, A. K.) Operator interpretation of resonances generated by some operator matrices. (English summary) **2001e:47012**
**Miller, Vivien G.** *see* **Bermúdez, Teresa**
**Motovilov, A. K.** *see* **Mennicken, Reinhard, 2001e:47012**
**Noor, Muhammad Aslam** Wiener-Hopf equations technique for variational inequalities. (English summary) **2001e:49019**
**Ostrovskiĭ, V. L.** On operator relations, centered operators, and nonbijective dynamical systems. (English summary) **2001d:47024**
**Saitô, Kimiaki** (*with* Tsoi, Allanus H.) The Lévy Laplacian acting on Poisson noise functionals. (English summary) **2001i:46073**
**Shekhtman, Boris** *see* **Chalmers, Bruce L. et al., 2001h:46007** *and* **2001h:46008**
**Tararykova, T. V.** Adaptive inequalities with exact constants for operators that satisfy conditions of $p$-convexity or $p$-concavity type. (Russian)
**Tsoi, Allanus H.** *see* **Saitô, Kimiaki, 2001i:46073**
**Vasyunin, V. I.** On a system of step functions. (Russian. English and Russian summaries) **2001i:11112**
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**Zaharopol, Radu** Iterated function systems generated by strict contractions and place-dependent probabilities. (English summary) **2001m:37017**
**Zima, Mirosława** On the local spectral radius in partially ordered Banach spaces. **2001m:47011**

# 47Cxx Individual linear operators as elements of algebraic systems

## 47C10 Operators in $*$-algebras

Items with secondary classifications in 47C10

**Popovych, Stanislav V.** Unbounded idempotents. (English summary) **2001f:46081**

## 47C15 Operators in $C^*$- or von Neumann algebras

Items with secondary classifications in 47C15

**Ehrhardt, Torsten** (*with* Silbermann, Bernd) Approximate identities and stability of discrete convolution operators with flip. (English summary) **2001e:47049**
**Guo, Kun Yu** Indices, characteristic numbers and essential commutants of Toeplitz operators. (English summary) **2001d:47040**
**Manuĭlov, V. M.** Almost commutativity implies asymptotic commutativity. (English summary) **2001g:46138**
**Silbermann, Bernd** *see* **Ehrhardt, Torsten, 2001e:47049**

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Items with secondary classifications in 47C99

**Ji, You Qing** (*with* Jiang, Chun Lan; Wang, Zong Yao) The $(\mathscr{U} + \mathscr{K})$-orbit of essentially normal operators and compact perturbations of strongly irreducible operators. (English summary) **2001e:47021**
**Jiang, Chun Lan** *see* **Ji, You Qing et al., 2001e:47021**
**Wang, Zong Yao** *see* **Ji, You Qing et al., 2001e:47021**

# 47Dxx Groups and semigroups of linear operators, their generalizations and applications

**Picard, Rainer** Evolution equations as operator equations in lattices of Hilbert spaces. (English summary) **2001h:47057**

Items with secondary classifications in 47Dxx

**(Balakrishnan, A. V.)** *see* **Semigroups of operators: theory and applications, 2001e:47005**
**Fabec, Raymond C.** ★ Fundamentals of infinite dimensional representation theory. (English summary) **2001m:22001**

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**Conference:**
**Semigroups of Operators: Theory and Control** ★ Semigroups of operators: theory and applications. **2001e:47005**
**Newport Beach, CA** ★ Semigroups of operators: theory and applications. **2001e:47005**
**Semigroups of operators: theory and applications** ★ Semigroups of operators: theory and applications. **2001e:47005**

## 47D03 Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20.}

**Andersson, Mats Erik** Remarks on hypercontractivity for the smallest groups. (English summary) **2001m:47085**
**Banasiak, Jacek** Stability of linear dynamical systems: modern versions of Lyapunov's theorem or the history of four numbers. (Polish) **2001m:47086**
**Beddaa, Abdelouahhab** *see* **Gürçay, Haşmet, 2001m:47090**
**Blunck, Sönke** Perturbation of analytic operators and temporal regularity of discrete heat kernels. (English summary) **2001m:47087**
**Bruzual, Ramón** (*with* Dominguez, Marisela) On the local operator commutation relations and extensions of locally defined positive definite functions on the Heisenberg group. (English summary) **2001k:47056**
**Cachia, Vincent** (*with* Zagrebnov, Valentin A.) Operator-norm approximation of semigroups by quasi-sectorial contractions. (English summary) **2001m:47088**
**Chebotarëv, A. M.** (*with* Liebscher, Volkmar) On relative boundedness in operator spaces. (English summary) **2001a:47042**
**Chen, Mu Fa** Logarithmic Sobolev inequality for symmetric forms. (English summary) **2001m:47089**
**Cioranescu, Ioana** (*with* Keyantuo, Valentin) Entire regularizations of strongly continuous groups and products of analytic generators. (English summary) **2001b:47061**
**Dominguez, Marisela** *see* **Bruzual, Ramón, 2001k:47056**
**Drnovšek, Roman** (*with* Livshits, Leonya; MacDonald, Gordon Wilson; Mathes, D. Benjamin; Radjavi, Heydar; Šemrl, Peter) On operator bands. (English summary) **2001c:47045**
**Feng, De Xing** *see* **Xu, Gen Qi, 2001m:47092**
**Galaz Fontes, Fernando** (*with* Sontz, Stephen Bruce) On two reverse inequalities in the Segal-Bargmann space. (English summary) **2001h:47058**
**González, Manuel** (*with* Martinez-Abejon, Antonio) Ultrapowers and semigroups of operators. (English summary) **2001g:47070**
**Gürçay, Haşmet** (*with* Beddaa, Abdelouahhab) Groups of composition operators on $C_0(X, \mathbb{C}^n)$. (English summary) **2001m:47090**
**Jang, Ruey-Jen** Geometric eigenspace of the generator of $C_0$-semigroup of positive operators. (English summary) **2001m:47091**
**Kérchy, László** Unbounded representations of discrete abelian semigroups. (English summary) (*see* **2001e:47005**)
**Keyantuo, Valentin** *see* **Cioranescu, Ioana, 2001b:47061**
**Leibman, A.** The structure of unitary actions of finitely generated nilpotent groups. (English summary) **2001g:47071**
**Liebscher, Volkmar** *see* **Chebotarëv, A. M., 2001a:47042**
**Livshits, Leonya** *see* **Drnovšek, Roman et al., 2001c:47045**
**MacDonald, Gordon Wilson** *see* **Drnovšek, Roman et al., 2001c:47045**
**Martínez-Abejon, Antonio** *see* **González, Manuel, 2001g:47070**
**Mathes, D. Benjamin** *see* **Drnovšek, Roman et al., 2001c:47045**

**Mirotin, A. R.** Generators of holomorphic semigroups as functions of generators of $C_0$-semigroups. (Russian. English and Russian summaries) **2001k:47057**
**Monniaux, Sylvie** A new approach to the Dore-Venni theorem. (English summary) **2001c:47046**
**Nagel, Rainer** (*with* Piazzera, Susanna) On the regularity properties of perturbed semigroups. (English summary) **2001h:47059**
**Piazzera, Susanna** *see* **Nagel, Rainer, 2001h:47059**
**Radjavi, Heydar** On semigroups of operators satisfying polynomial identities.
— Sublinearity and other spectral conditions on a semigroup. (English summary) **2001d:47057**
— *see also* **Drnovšek, Roman et al., 2001c:47045**
**Šemrl, Peter** *see* **Drnovšek, Roman et al., 2001c:47045**
**Sontz, Stephen Bruce** *see* **Galaz Fontes, Fernando, 2001h:47058**
**Uiterdijk, Marc** A functional calculus for analytic generators of $C_0$-groups. (English summary) **2001g:47072**
**Xu, Gen Qi** (*with* Feng, De Xing) On the spectrum determined growth assumption and the perturbation of $C_0$ semigroups. (English summary) **2001m:47092**
**Zagrebnov, Valentin A.** *see* **Cachia, Vincent, 2001m:47088**

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**Bartoszek, Wojciech** On unrestricted products of (W) contractions. (English summary) **2001k:47016**
**Bhat, B. V. Rajarama** (*with* Skeide, Michael) Tensor product systems of Hilbert modules and dilations of completely positive semigroups. (English summary) **2001m:46149**
**Bruzual, Ramón** (*with* Dominguez, Marisela) A proof of the continuous commutant lifting theorem. (English summary) **2001h:47009**
— (*with* Dominguez, Marisela) Extensions of operator valued positive definite functions on an interval of $\mathbf{Z}^2$ with the lexicographic order. (English summary) **2001i:43011**
**Cipriani, Fabio** Sobolev-Orlicz imbeddings, weak compactness, and spectrum. (English summary) **2001m:46069**
**D'Antoni, Claudio** (*with* Zsidó, László) Groups of linear isometries on multiplier $C^*$-algebras. (English summary) **2001g:46122**
**Dominguez, Marisela** *see* **Bruzual, Ramón, 2001h:47009** *and* **2001i:43011**
**Drnovšek, Roman** Common invariant subspaces for collections of operators. (English summary) **2001m:47012**
**Gubreev, G. M.** $L_2$-stable semigroups, Muckenhoupt weights, and unconditional bases of values of quasi-exponentials. (Russian. Russian summary) **2001f:47059**
**Hishida, Toshiaki** $L^2$ theory for the operator $\Delta + (k \times x) \cdot \nabla$ in exterior domains. (English summary) **2001k:35130**
**Hofmann, Karl Heinrich** An illustration of the power of structure theory. (English summary) **2001m:22003**
**Hu, Qing-ying** *see* **Zhang, Hong Wei²**
**Jahandideh, M. T.** On the ideal-reducibility of semigroups of positive operators on Banach lattices. (English summary) **2001f:47065**
**Ji, Un Cig** Integral kernel operators on regular generalized white noise functions. (English summary) **2001i:60107**
**Jørgensen, Palle E. T.** (*with* Ólafsson, Gestur) Unitary representations and Osterwalder-Schrader duality. (English summary) **2001f:22036**
**Korkina, L. F.** (*with* Rekant, M. A.) Integral representations of fractional powers and related operators. (Russian. English and Russian summaries) **2001i:47025**
**Lešnjak, Gorazd** Semigroups of EP linear transformations. (English summary) **2001b:47003**
**Lizama, Carlos** (*with* Prado, Humberto) The vector-valued Stieltjes transform. **2001g:44009**
**Markin, M. V.** On a characterization of the generators of analytic semigroups in the class of normal operators. (English summary) **2001e:47071**
**Mishura, Yu. S.** Existence of solutions of abstract Volterra equations in a Banach space and its subsets. (Ukrainian. English and Ukrainian summaries) **2001m:45002**
**Ólafsson, Gestur** *see* **Jørgensen, Palle E. T., 2001f:22036**
**Omladič, Matjaž** Groups generated by their elements of a fixed finite order. (*see* **2001b:00032**)
**Partington, Jonathan R.** (*with* Weiss, George) Admissible observation operators for the right-shift semigroup. (English summary) **2001j:93024**
**Popescu, Gelu** Structure and entropy for positive-definite Toeplitz kernels on free semigroups. (English summary) **2001m:47029**
**Prado, Humberto** *see* **Lizama, Carlos, 2001g:44009**
**Przeworska-Rolewicz, Danuta** True shifts revisited. **2001m:47025**
**Radjavi, Heydar** (*with* Rosenthal, Peter) ★ Simultaneous triangularization. (English summary) **2001e:47001**
**Rekant, M. A.** *see* **Korkina, L. F., 2001i:47025**
**Rosenthal, Peter** *see* **Radjavi, Heydar, 2001e:47001**
**Rudolf, Oliver** Hausdorff-Operatoren auf BK-Räumen und Halbgruppen linearer Operatoren. [Hausdorff operators on BK-spaces and semigroups of linear operators] **2001h:47052**
**Sato, Ryotaro** A general differentiation theorem for superadditive processes. (English summary) **2001b:47019**
**Skeide, Michael** *see* **Bhat, B. V. Rajarama, 2001m:46149**
**Sontz, Stephen Bruce** On some reverse inequalities in the Segal-Bargmann space. (English summary) **2001g:46051**
**Štrkalj, Željko** A theorem on products of non-commuting sectorial operators. **2001m:47081**
**Weiss, George** *see* **Partington, Jonathan R., 2001j:93024**
**Zhang, Hong Wei²** (*with* Hu, Qing-ying) Semigroup theory for control system on non-sum-reflexive Banach spaces. (English and Chinese summaries)
**Zhang, Xianwen** Characteristic conditions for the complete infinitesimal generators of analytic semigroups of growth order $\alpha$. (English summary) **2001e:47074**
**Zsidó, László** *see* **D'Antoni, Claudio, 2001g:46122**

## 47D06 One-parameter semigroups and linear evolution equations [see also 34G10, 34K30]

**Ameziane Hassani, R.** (*with* Blali, A.) Dual-semi-groupe d'espaces localement convexes. (English summary) [Dual semigroup of locally convex spaces] **2001b:47062**
**Amosov, G. G.** On the approximation of semigroups of isometries in a Hilbert space. (Russian) **2001f:47066**
**Anufrieva, U.** *see* **Melnikova, Irina V. et al., 2001e:47072**
**Arendt, Wolfgang** (*with* Driouich, A.; El-Mennaoui, O.) On the infinite product of $C_0$-semigroups. (English summary) **2001a:47043**
**Arlotti, L.** On $B$-bounded semigroups as a generalization of $C_0$-semigroups. (English summary) **2001d:47058**
**Babalola, V. A.** Stability of exponentially bounded $C_0$-operator semigroups in sequentially complete locally convex spaces. (English summary) **2001d:47059**
**Banasiak, Jacek** $B$-bounded semigroups, existence families and implicit evolution equations. (*see* **2001e:47005**)
**Baskakov, A. G.** Invertibility of linear differential operators and exponential dichotomy. (Russian) **2001f:47067**
**Batty, Charles J. K.** (*with* Chill, Ralph) Bounded convolutions and solutions of inhomogeneous Cauchy problems. (English summary) **2001d:47061**
— (*with* Chill, Ralph; van Neerven, J. M. A. M.) Asymptotic behaviour of $C_0$-semigroups with bounded local resolvents. (English summary) **2001i:47065**
— (*with* Yeates, Stephen B.) Weighted and local stability of semigroups of operators. (English summary) **2001d:47060**
**Blali, A.** *see* **Ameziane Hassani, R., 2001b:47062**
**Bochenek, Jan** (*with* Winiarska, Teresa) $C_0$-semigroups with weak singularity and its applications. (English summary) **2001k:47058**
**Brendle, Simon** (*with* Nagel, Rainer; Poland, Jan) On the spectral mapping theorem for perturbed strongly continuous semigroups. (English summary) **2001a:47044**
**Buşe, Constantin** On the Perron-Bellman theorem for evolutionary processes with exponential growth in Banach spaces. (English summary) **2001b:47063**
— Perron conditions and its connection with exponential stability of solutions for integro-differential equations on the half line. (English summary) **2001f:47068**
— *see also* **Reghiş, Mircea, 2001b:47067**
**Cachia, Vincent** (*with* Zagrebnov, Valentin A.) Operator-norm convergence of the Trotter product formula for sectorial generators. (English summary) **2001d:47062**
**Casarino, Valentina** Equicontinuous families of operators generating mean periodic maps. (English and Italian summaries) **2001e:47066**
— Semigroups and asymptotic mean periodicity. (English summary) **2001h:47060**
— (*with* Piazzera, Susanna) On the stability of asymptotic properties of perturbed $C_0$-semigroups. (English summary) **2001k:47059**
**Cerrai, Sandra** Analytic semigroups and degenerate elliptic operators with unbounded coefficients: a probabilistic approach. (English summary) **2001e:47067**
**Chicone, Carmen** (*with* Latushkin, Yu. D.) ★ Evolution semigroups in dynamical systems and differential equations. (English summary) **2001e:47068**
**Chill, Ralph** *see* **Batty, Charles J. K. et al., 2001d:47061** *and* **2001i:47065**
**Coulhon, Thierry** Estimates for kernels of Markov semigroups and geometry. (*see* **2001b:47001**)
**Descombes, Stéphane** (*with* Dia, Boun Oumar) An operator-theoretic proof of an estimate on the transfer operator. (English summary) **2001e:47069**
**Dia, Boun Oumar** *see* **Descombes, Stéphane, 2001e:47069**
**Doumeki, Atsushi** Error bounds on the Trotter-Kato product formula of relativistic Schrödinger operators with electromagnetic fields. (English summary) **2001j:47039**
**Driouich, A.** *see* **Arendt, Wolfgang et al., 2001a:47043**
**El-Mennaoui, O.** *see* **Arendt, Wolfgang et al., 2001a:47043**
**Emamirad, Hassan** *see* **deLaubenfels, Ralph et al., 2001f:47071**
**Enomoto, Yuko** On the smoothness of linear semigroups—inverse uniqueness and quasi-analyticity. (Japanese. Japanese summary) (*see* **2001d:34002**)
**Favini, Angelo** (*with* Goldstein, Gisèle R.; Goldstein, Jerome A.; Romanelli, Silvia) Generalized Wentzell boundary conditions and analytic semigroups in $C[0,1]$. **2001h:47061**
**Fëdorov, V. E.** Generators of analytic groups with kernels. (Russian. Russian summary) **2001e:47070**
— Infinitely differentiable semigroups of operators with kernels. (Russian. Russian summary) **2001f:47069**
— Degenerate strongly continuous semigroups of operators. (Russian. Russian summary) **2001k:47060**
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**Teichmann, Josef** Hopf's decomposition and recurrent semigroups. (English summary) **2001d:47055**

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## 47D07 Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx.}

**Campiti, Michele** (*with* Metafune, Giorgio; Pallara, Diego) One-dimensional Feller semigroups with reflecting barriers. (English summary) **2001j:47040**

**Cipriani, Fabio** (*with* Fagnola, Franco; Lindsay, J. Martin) Spectral analysis and Feller property for quantum Ornstein-Uhlenbeck semigroups. (English summary) **2001b:47070**

**Demuth, Michael** Stochastic processes and the spectrum of Feller operators. (English summary) **2001h:47065**

**Eberle, Andreas** $L^p$ uniqueness of non-symmetric diffusion operators with singular drift coefficients. I. The finite-dimensional case. (English summary) **2001e:47075**

**Fagnola, Franco** *see* **Cipriani, Fabio et al.**, 2001b:47070

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**Altomare, Francesco** (*with* Carbone, Ingrid) Markov processes and diffusion equations on unbounded intervals. (English summary) **2001m:60171**

**Bendikov, A. D.** (*with* Saloff-Coste, Laurent) Potential theory on infinite products and locally compact groups. (English summary) **2001a:31012**

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**Clément, Philippe** (*with* Da Prato, Giuseppe) Stochastic convolutions with kernels arising in some Volterra equations. (English summary) **2001c:60103**

**Da Prato, Giuseppe** Non-gradient perturbations of Ornstein-Uhlenbeck semigroups. **2001g:60130**

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**Getoor, R. K.** Measure perturbations of Markovian semigroups. (English summary) **2001c:60119**

**Hino, Masanori** Exponential decay of positivity preserving semigroups on $L^p$. **2001k:60109**

**Hirsch, Francis** Lipschitz functions and fractional Sobolev spaces. (English summary) **2001g:60133**

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**Lasiecka, Irena** (*with* Triggiani, Roberto) ★ Control theory for partial differential equations: continuous and approximation theories. II. (English summary) **2001m:93003**
**Lewkeeratiyutkul, Wicharn** Perturbation theorems for supercontractive semigroups. (English summary) **2001a:31010**
**Lindsay, J. Martin** (*with* Wills, Stephen J.) Markovian cocycles on operator algebras adapted to a Fock filtration. (English summary) **2001m:81149**
**Liskevich, Vitali** On $L^p$-theory of $C_0$-semigroups generated by elliptic second order differential expressions. (English summary) (*see* **2001e:47005**)
**Łuczak, Andrzej** Mixing and asymptotic properties of Markov semigroups on von Neumann algebras. (English summary) **2001k:46099**
**Mukhamedov, F. M.** On compactness of some sets of positive maps on von Neumann algebras. (English summary) **2001e:46112**
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**Shigekawa, Ichiro** The domain of a generator and the intertwining property. **2001j:60136**
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## 47D08 Schrödinger and Feynman-Kac semigroups

**Debiard, Amédée** (*with* Gaveau, Bernard) The ground state of certain Coulomb systems and Feynman-Kac exponentials. (English summary) **2001k:47065**
**Gaveau, Bernard** *see* **Debiard, Amédée, 2001k:47065**
**Gulisashvili, Archil** Sharp estimates in smoothing theorems for Schrödinger semigroups. (English summary) **2001i:47069**
**Simon, Barry** A Feynman-Kac formula for unbounded semigroups. (English summary) **2001m:47098**

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**Blower, Gordon** Maximal functions and transference for groups of operators. (English summary) **2001k:42023**
**Broderix, Kurt** (*with* Hundertmark, Dirk; Leschke, Hajo) Continuity properties of Schrödinger semigroups with magnetic fields. (English summary) **2001h:81053**
**Hundertmark, Dirk** *see* **Broderix, Kurt et al., 2001h:81053**
**Jahnke, Tobias** (*with* Lubich, Christian) Error bounds for exponential operator splittings. (English summary) **2001k:65143**
**Johnson, Gerald W.** (*with* Lapidus, Michel L.) ★ The Feynman integral and Feynman's operational calculus. **2001i:58015**
— (*with* Kim, Jeong Gyoo) A dominated-type convergence theorem for the Feynman integral. (English summary) **2001j:81120**
**Kim, Jeong Gyoo** *see* **Johnson, Gerald W., 2001j:81120**
**Lapidus, Michel L.** *see* **Johnson, Gerald W., 2001i:58015**
**Leschke, Hajo** *see* **Broderix, Kurt et al., 2001h:81053**
**Lubich, Christian** *see* **Jahnke, Tobias, 2001k:65143**
**Van Casteren, Jan A.** Some problems in stochastic analysis and semigroup theory. (English summary) **2001k:47064**
**Wittich, Olaf** A transformation of a Feynman-Kac formula for holomorphic families of type B. (English summary) **2001j:81067**
**Wu, Li Ming**[1] Uniformly integrable operators and large deviations for Markov processes. (English summary) **2001e:60062**

## 47D09 Operator sine and cosine functions and higher-order Cauchy problems [see also 34G10]

**Jiang, Hui-kun** *see* **Shi, Jin-e, 2001m:47099**
**Shi, Jin-e** (*with* Jiang, Hui-kun) On $\alpha$-times integrated cosine functions ($\alpha \in \mathbf{R}^+$). (English and Chinese summaries) **2001m:47099**

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**Anthoni, S. Marshal** *see* **Balachandran, Krishnan, 2001m:45010**
**Badora, Roman** On the d'Alembert type functional equation in Hilbert algebras. **2001m:39078**
**Balachandran, Krishnan** (*with* Anthoni, S. Marshal) Existence of solutions of second order Volterra integrodifferential equations in Banach spaces. (English summary) **2001m:45010**
**Benchohra, Mouffak** (*with* Ntouyas, S. K.) An existence result on noncompact intervals for second order functional differential inclusions. (English summary) **2001f:34148**
— (*with* Ntouyas, S. K.) An existence result for second order functional differential inclusions. (English summary) **2001c:34167**
**Blower, Gordon** Maximal functions and transference for groups of operators. (English summary) **2001k:42023**
**Bobrowski, Adam** The Widder-Arendt theorem on inverting of the Laplace transform, and its relationships with the theory of semigroups of operators. (English summary) **2001d:47066**
**Casarino, Valentina** Equicontinuous families of operators generating mean periodic maps. (English and Italian summaries) **2001e:47066**
**Gavrilyuk, Ivan P.** Strongly $P$-positive operators and explicit representations of the solutions of initial value problems for second-order differential equations in Banach space. (English summary) **2001j:34072**
**Li, Yuan-Chuan** (*with* Shaw, Sen-Yen) Integrated $C$-semigroups and $C$-cosine functions of Hermitian and positive operators. (English summary) (*see* **2001e:47005**)
**Liang, Jin** *see* **Xiao, Ti-Jun, 2001a:34099**
**Liu, Hsiang** (*with* Shaw, Sen-Yen) Rates of local ergodic limits of $n$-times integrated solution families. (English summary) **2001k:47066**
**Melnikova, Irina V.** The degenerate Cauchy problem in Banach spaces. (English and Russian summaries) **2001g:34083**
**Nguyen Hoi Nghia** *see* **Nguyen Thanh Long, 2001m:39072**
**Nguyen Thanh Long** (*with* Nguyen Hoi Nghia) On a system of functional equations in a multi-dimensional domain. (English summary) **2001m:39072**
**Ntouyas, S. K.** *see* **Benchohra, Mouffak, 2001c:34167** *and* **2001f:34148**
**Schüler, Elena** (*with* Vu Quoc Phong) The operator equation $AX - X\mathcal{D}^2 = -\delta_0$ and second order differential equations in Banach spaces. **2001j:47020**
**Shaw, Sen-Yen** Ergodic theorems and approximation theorems with rates. (English summary) **2001g:47017**
— *see also* **Liu, Hsiang, 2001k:47066** *and* **Li, Yuan-Chuan, (2001e:47005)**
**Smajdor, Andrzej** On regular multivalued cosine families. (English summary) **2001f:39031**
**Vu Quoc Phong** *see* **Schüler, Elena, 2001j:47020**
**Xiao, Ti-Jun** (*with* Liang, Jin) ★ The Cauchy problem for higher-order abstract differential equations. **2001a:34099**

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## 47D60 $C$-semigroups

**Banasiak, Jacek** Generation results for $B$-bounded semigroups. (English summary) **2001b:47071**
**Kuo, Chung-Cheng** (*with* Shaw, Sen-Yen) On $\alpha$-times integrated $C$-semigroups and the abstract Cauchy problem. (English summary) **2001i:47070**
**Shaw, Sen-Yen** *see* **Kuo, Chung-Cheng, 2001i:47070**
**Shen, Jun Hao** (*with* Song, Guo Zhu) A generalization of $C$-semigroup. (English summary) **2001j:47042**
**Song, Guo Zhu** *see* **Shen, Jun Hao, 2001j:47042**

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**Arlotti, L.** On $B$-bounded semigroups as a generalization of $C_0$-semigroups. (English summary) **2001d:47058**

## 47D62 Integrated semigroups

**Bobrowski, Adam** Integrated semigroups and the Trotter-Kato theorem. (English summary)
— The Widder-Arendt theorem on inverting of the Laplace transform, and its relationships with the theory of semigroups of operators. (English summary) **2001d:47066**
**Feng, De Xing** *see* **Xu, Gen Qi, 2001g:47077**
**Kravarušić, Ratko** (*with* Mijatović, Milorad; Pilipović, Stevan S.) Integrated semigroups of unbounded linear operators in Banach spaces. I. (English summary) **2001d:47067**
— (*with* Mijatović, Milorad; Pilipović, Stevan S.) Integrated semigroup of unbounded linear operators—Cauchy problem. II. (English summary) **2001g:47076**
**Li, Yuan-Chuan** (*with* Shaw, Sen-Yen) Integrated $C$-semigroups and $C$-cosine functions of Hermitian and positive operators. (English summary) (*see* **2001e:47005**)
**Liang, Jin** *see* **Xiao, Ti-Jun, 2001b:47072**
**Liu, Hsiang** (*with* Shaw, Sen-Yen) Rates of local ergodic limits of $n$-times integrated solution families. (English summary) **2001k:47066**
**Miana, Pedro J.** Fractional calculus and the abstract Cauchy problem. (Spanish. English summary) **2001j:47043**
**Mijatović, Milorad** (*with* Pilipović, Stevan S.) Integrated semigroups and distribution semigroups—Cauchy problem. **2001h:47066**
— *see also* **Kravarušić, Ratko et al., 2001d:47067** *and* **2001g:47076**
**Pilipović, Stevan S.** *see* **Kravarušić, Ratko et al., 2001d:47067; 2001g:47076** *and* **Mijatović, Milorad, 2001h:47066**
**Shaw, Sen-Yen** *see* **Liu, Hsiang, 2001k:47066** *and* **Li, Yuan-Chuan, (2001e:47005)**
**Shen, Jun Hao** (*with* Song, Guo Zhu) General integrated semigroups. (Chinese. English and Chinese summaries) **2001j:47044**
**Song, Guo Zhu** *see* **Shen, Jun Hao, 2001j:47044**
**Xiao, Ti-Jun** (*with* Liang, Jin) Approximations of Laplace transforms and integrated semigroups. (English summary) **2001b:47072**
**Xu, Gen Qi** (*with* Feng, De Xing) On strongly continuous bisemigroups and integrated bisemigroups. (Chinese. English and Chinese summaries) **2001g:47077**
**Yang, Guang-Jun** $\alpha$-times integrated semigroups and singular equations. (English summary) **2001k:47067**

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**Feng, De Xing** *see* **Xu, Gen Qi, 2001d:47023** *and* **2001k:47063**
**Kuo, Chung-Cheng** (*with* Shaw, Sen-Yen) On $\alpha$-times integrated $C$-semigroups and the abstract Cauchy problem. (English summary) **2001i:47070**
**Liang, Jin** *see* **Xiao, Ti-Jun, 2001a:34099**
**Melnikova, Irina V.** The degenerate Cauchy problem in Banach spaces. (English and Russian summaries) **2001g:34083**
**van Neerven, J. M. A. M.** (*with* Straub, B.) On the existence and growth of mild solutions of the abstract Cauchy problem for operators with polynomially bounded resolvent. (English summary) **2001a:34103**
**Shaw, Sen-Yen** Ergodic theorems and approximation theorems with rates. (English summary) **2001g:47017**
— *see also* **Kuo, Chung-Cheng, 2001i:47070**
**Straub, B.** *see* **van Neerven, J. M. A. M., 2001a:34103**

**Xiao, Ti-Jun** (*with* Liang, Jin) ★ The Cauchy problem for higher-order abstract differential equations. **2001a:34099**

**Xu, Gen Qi** (*with* Feng, De Xing) The solvability of the operator equation $AX - XA = C$ with unbounded operator $A$. (Chinese. English and Chinese summaries) **2001d:47023**

— (*with* Feng, De Xing) Some properties of integrated bisemigroups. (English summary) **2001k:47063**

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## 47D99 None of the above, but in this section

**Shaw, Sen-Yen** Ergodic theorems with rates for $r$-times integrated solution families. (English summary) **2001g:47078**

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**Balakrishnan, A. V.** Semigroup theory in aeroelasticity. (English summary) **2001i:76086**

**Dungey, Nick** (*with* ter Elst, A. F. M.; Robinson, Derek W.) Asymptotics of sums of subcoercive operators. (English summary) **2001k:22012**

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**Fagnola, Franco** A simple singular quantum Markov semigroup. (English summary) **2001c:46119**

**Olkiewicz, Robert** Environment-induced superselection rules in Markovian regime. (English summary) **2001g:81110**

**Ostrovskiĭ, V. L.** On double commutator relation. (English summary) **2001i:47061**

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## 47E05 Ordinary differential operators [see also 34Bxx, 34Lxx]

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**Iancu, G. M.** Boundedness of pseudo-differential operators on Hörmander spaces. (English summary) **2001j:47057**
**Karapetyants, A. N.** (*with* Nogin, Vladimir A.) On the $\mathscr{L}$-characteristic of some potential-type operators with oscillating symbols and singularities of the kernels on a sphere. (Russian) **2001e:47084**
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**Rabinovich, Vladimir S.** (*with* Vasilevskiĭ, N. L.) Bergman-Toeplitz and pseudodifferential operators. (English summary) **2001i:47080**
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**Schulze, Bert-Wolfgang** *see* **Rabinovich, Vladimir S. et al., 2001d:47081**
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**Vasilevskiĭ, N. L.** *see* **Rabinovich, Vladimir S., 2001i:47080**
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**Yang, Qixiang** Geometric structure for $\mathrm{Op}S^m_{1,1}$. (English summary) **2001f:47090**
**Zaidman, Samuel** Estimate for the commutator $[A(x,D),I_s]$ in $\mathscr{B}_{1,\sigma}(\mathbf{R}^n)$ spaces. (English summary) **2001h:47086**
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**Ben Salem, N.** (*with* Dachraoui, A.) Sobolev type spaces associated with Jacobi differential operators. (English summary) **2001e:46051**
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**Bruneau, Vincent** Semi-classical asymptotics of Riesz means. (English summary) **2001h:81076**
**Chkadua, O.** (*with* Duduchava, R.) Pseudodifferential equations on manifolds with boundary: Fredholm property and asymptotic. (English summary) **2001m:58057**
**Dachraoui, A.** *see* **Ben Salem, N., 2001e:46051**
**Dimassi, Mouez** (*with* Sjöstrand, Johannes) ★ Spectral asymptotics in the semi-classical limit. (English summary) **2001b:35237**
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**Kachanovskiĭ, N. A.** Biorthogonal Appell-like systems in a Hilbert space. (English summary) **2001d:46058**
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**(Maz'ya, Vladimir G.)** *see* **Elschner, Johannes, 2001a:01047**
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**Pflaum, Markus J.** *see* **Lesch, Matthias, 2001b:58042**
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**Sigua, L.** Screen problem for vector Helmholtz equation. (English summary) **2001f:35095**
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**Vaĭnikko, G. M.** (*with* Lifanov, I. K.) Generalization and use of the theory of pseudodifferential operators in the modeling of some problems in mechanics. (Russian) **2001k:76013**
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## 47G99 None of the above, but in this section

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# 47Hxx Nonlinear operators and their properties {For global and geometric aspects, see 58–XX, especially 58Cxx.}

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**Ize, Jorge** Nonlinear analysis. (Spanish) (*see* **2001e:00020**)

## 47H04 Set-valued operators [see also 28B20, 54C60, 58C06]

**Agarwal, Ravi P.** (*with* O'Regan, Donal) A note on the existence of multiple fixed points for multivalued maps with applications. (English summary) **2001b:47084**
**Andres, Ján** Nielsen number and multiplicity results for multivalued boundary value problems. (English summary) **2001k:47075**
**Chowdhury, Mohammad S. R.** (*with* Tan, Kok-Keong) Intersection theorems in $G$-convex spaces and applications. (English summary) **2001b:47085**
**Correa, Rafael** (*with* Seeger, Alberto) Eigenvalue localization for multivalued operators. (English summary) **2001a:47052**
**Huang, Li Ren**[2] *see* **Xian, Guo Rong, 2001a:47054**
**Jeong, Kwang Sik** *see* **Park, Sehie, 2001c:47058**
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**Seeger, Alberto** *see* **Correa, Rafael, 2001a:47052**
**Stepanov, E. O.** (*with* Zecca, Pietro) Infinite-dimensional topological degree for systems of nonconvex inclusions. **2001a:47053**
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**Xian, Guo Rong** (*with* Huang, Li Ren[2]) Boundedness and measurability for convex processes. (Chinese. English and Chinese summaries) **2001a:47054**
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— (*with* Górniewicz, Lech; Jezierski, Jerzy) A generalized Nielsen number and multiplicity results for differential inclusions. (English summary) **2001a:55001**
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**Anello, G.** Covering dimension and differential inclusions. (English summary) **2001i:34099**
**Anichini, Giuseppe** (*with* Conti, Giuseppe) How to make use of the solution set to solve boundary value problems. (English summary) **2001i:34022**
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**Fan, Jiang Hua** Fixed point theorems in locally convex spaces. (Chinese. English and Chinese summaries) **2001e:47089**
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**Fryszkowski, Andrzej** (*with* Górniewicz, Lech) Mixed semicontinuous mappings and their applications to differential inclusions. (English summary) **2001i:34015**
**Gabor, Dorota** (*with* Kryszewski, Wojciech) On the solvability of systems of noncompact and nonconvex inclusions. (English summary) **2001g:47115**
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**Idzik, Adam** *see* **Dzedzej, Zdzisław et al., 2001k:55005**
**Izydorek, Marek** *see* **Dzedzej, Zdzisław et al., 2001k:55005**
**Jeong, Jae Ug** *see* **Park, Jong Yeoul**
**Jezierski, Jerzy** *see* **Andres, Ján et al., 2001a:55001**
**Jia, Li Xin** *see* **Jiang, Li Zhi et al.**
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**Jiang, Li Zhi** (*with* Zhang, Qing Nian; Li, Li Xia; Jia, Li Xin) The Egorov theorem for measurable set-valued mappings. (Chinese. English and Chinese summaries)
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**Juniewicz, Maciej** *see* **Nguyễn Hồng Thái et al., 2001g:54022**
**Kannan, Rangachary** (*with* O'Regan, Donal) A note on the solution set of integral inclusions. (English summary) **2001b:45011**
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**Kummer, Bernd** Inverse functions of pseudo regular mappings and regularity conditions. (English summary) **2001f:90050**
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**Lei, Jin-gan** *see* **Tian, Yan, 2001a:47071**
**Li, Hong-Xu** (*with* Huang, Fa-lun) Continuous selections for multivalued mappings with closed convex images and applications. (English summary) **2001i:54016**
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**Li, Li Xia** *see* **Jiang, Li Zhi et al.**
**Lim, Teck-Cheong** A fixed point theorem for weakly inward multivalued contractions. **2001d:47088**
**Monjardet, Bernard** (*with* Raderanirina, Vololonirina) The duality between the anti-exchange closure operators and the path independent choice operators on a finite set. (English summary) **2001j:91049**
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**Moors, Warren B.** *see* **Borwein, Jonathan M. et al., 2001b:49020**
**Murthy, P. P.** *see* **Singh, Maibam Ranjit et al., 2001k:54070**
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**Nguyen Xuan Tan** *see* **Nguyen Ba Minh, 2001k:90069**
**Noor, Muhammad Aslam** Three-step iterative algorithms for multivalued quasi variational inclusions. (English summary) **2001k:49029**
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**Savel'ev, P. N.** Fixed points and selections of set-valued maps on spaces with convexity. (English summary) **2001h:47097**
**Semenov, Pavel V.** (*with* Shchepin, E. V.) Selection approach to multivalued separation theorems. (English summary) **2001a:54027**
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**Shchepin, E. V.** *see* **Semenov, Pavel V., 2001a:54027**
**Shishkov, Ivailo** Selections of lower semi-continuous mappings into Hilbert spaces. **2001e:54040**
**Shoiji, Naoki** Existence of solutions for Cauchy problems and periodic problems with multivalued pseudo monotone operators. (English summary) **2001m:34138**
**Simons, Stephen** ★ Minimax and monotonicity. **2001h:49002**
**Sims, Brailey** (*with* Xu, Hong-Kun; Yuan, George Xian-Zhi) The homotopic invariance for fixed points of set-valued nonexpansive mappings. (English summary) **2001f:47099**
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**Solonoukha, O. V.** On solvability of monotone type problems with non-coercive set-valued operators. (English summary) **2001j:47076**
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**Tian, Yan** (*with* Lei, Jin-gan) On the monotone iterative method for set valued equation. (English summary) **2001a:47071**
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**Väth, Martin** Fixed point theorems and fixed point index for countably condensing maps. (English summary) **2001c:47068**
**Wu, Cong Xin** *see* **Li, Lei, 2001h:49028**
**Xia, Zun Quan** *see* **Zhang, Li Wei, 2001g:49020**
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**Yang, Hong Qiang** *see* **Li, Jin Shan**
**Yannakakis, Nikolaos** *see* **Papageorgiou, Nikolaos S. et al., 2001k:34113**
**Yao, Jen Chih** *see* **Lee, C.-H. et al., 2001h:49017**
**Yuan, George Xian-Zhi** *see* **Sims, Brailey et al., 2001f:47099** *and* **Chowdhury, Mohammad S. R. et al., 2001f:91021**
**Zabreĭko, Petr Petrovich** *see* **Gorokhovik, Valentin V., 2001b:46067**
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## 47H05 Monotone operators (with respect to duality)

**Bauschke, Heinz H.** (*with* Borwein, Jonathan M.) Maximal monotonicity of dense type, local maximal monotonicity, and monotonicity of the conjugate are all the same for continuous linear operators. (English summary) **2001j:47059**
**Borwein, Jonathan M.** *see* **Bauschke, Heinz H., 2001j:47059**
**He, Zhen[1]** Ranges of sums for compact perturbations of pseudo-monotone operators. (Chinese. English and Chinese summaries) **2001i:47085**
**Mustonen, Vesa** (*with* Tienari, Matti) On monotone-like mappings in Orlicz-Sobolev spaces. (English summary) **2001j:47060**
**Oettli, Werner** (*with* Riahi, Hassan) On maximal $\varphi$-monotonicity of sums of operators. (English summary) **2001d:47083**
**Reich, Simeon** (*with* Zaslavski, Alexander J.) Convergence of Krasnoselskii-Mann iterations of nonexpansive operators. (English summary) **2001j:47061**
**Riahi, Hassan** *see* **Oettli, Werner, 2001d:47083**
**Tienari, Matti** *see* **Mustonen, Vesa, 2001j:47060**
**Wang, Li Sheng[3]** (*with* Xu, Zong Ben) Quantitative study of nonlinear Lipschitz operators in $C^m$ space. (Chinese. English and Chinese summaries) **2001f:47091**
**Wei, Li** Mapping theorems for maximal monotone operators in a Banach space and their application. (Chinese. English and Chinese summaries) **2001c:47059**
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— Range perturbation theorems of maximal monotone operators. (Chinese. English and Chinese summaries) **2001i:47086**
— An improvement of perturbation theorems for maximal monotone operators. (Chinese. English and Chinese summaries)
— Mapping theorems of expansive maximal monotone operators. (Chinese. English and Chinese summaries)
**Xu, Zong Ben** *see* **Wang, Li Sheng[3], 2001f:47091**
**Zaslavski, Alexander J.** *see* **Reich, Simeon, 2001j:47061**

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**Bai, Min-Ru** *see* **Huang, Nan Jing et al., 2001a:47072**
**Benkadar, Nasreddine M.** (*with* Gel'man, Boris D.) Generalized local degree for multi-valued mappings. (English summary)
**Cho, Yeol Je** *see* **Huang, Nan Jing et al., 2001a:47072**
**Daniilidis, Aris** (*with* Hadjisavvas, Nicolas) On generalized cyclically monotone operators and proper quasimonotonicity. (English summary) **2001a:49017**
**Gel'man, Boris D.** *see* **Benkadar, Nasreddine M.**
**Hadjisavvas, Nicolas** *see* **Daniilidis, Aris, 2001a:49017**
**Halidias, Nikolaos** (*with* Papageorgiou, Nikolaos S.) Extremal periodic solutions for quasilinear differential equations. **2001g:34053**
— (*with* Papageorgiou, Nikolaos S.) Existence of solutions for quasilinear second order differential inclusions with nonlinear boundary conditions. (English summary) **2001b:34037**
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**Hu, Shouchuan** (*with* Papageorgiou, Nikolaos S.) Nonlinear elliptic problems of Neumann-type. (English summary) **2001i:35118**
**Huang, Nan Jing** (*with* Bai, Min-Ru; Cho, Yeol Je; Kang, Shin Min) Generalized nonlinear mixed quasi-variational inequalities. (English summary) **2001a:47072**
**Kandilakis, Dimitrios A.** Quasilinear differential equations depending on a maximal monotone operator. **2001m:34031**
**Kang, Shin Min** *see* **Huang, Nan Jing et al., 2001a:47072**
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**Manásevich, Raúl** (*with* Mawhin, Jean) Boundary value problems for nonlinear perturbations of vector $p$-Laplacian-like operators. (English summary) **2001g:34023**
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**Mortici, Cristinel** (*with* Sburlan, Silviu) Bifurcations for monotone type operators. (English summary) **2001d:47103**
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**Ohsawa, Shigeo** (*with* Takahashi, Wataru) Convergence theorems for resolvents of maximal monotone operators. (Japanese) (*see* **2001m:90005**)
**Papageorgiou, Nikolaos S.** *see* **Halidias, Nikolaos**, **2001b:34037**; **2001g:34053** *and* **Hu, Shouchuan, 2001i:35118**
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**Samollenko, A. M.** (*with* Slyusarchuk, V. E.; Slyusarchuk, V. V.) On an operator equation in the theory of discrete dynamical systems. (Russian. English and Ukrainian summaries) **2001m:39053**
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**Svaiter, Benar Fux** A family of enlargements of maximal monotone operators. (English summary) **2001i:49037**
**Takáč, Peter** Discrete monotone dynamics and time-periodic competition between two species. (English summary) **2001a:37124**
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**Verona, Andrei** (*with* Verona, Maria Elena) Regular maximal monotone operators and the sum theorem. (English summary) **2001h:47087**
**Verona, Maria Elena** *see* **Verona, Andrei, 2001h:47087**
**Yan, Jing Xian** Approximate couple fixed points and a couple fixed theorem for semicompact nonexpansive mappings. (Chinese. English and Chinese summaries)
**Yang, Yi Min**[1] On strong pseudoconvexity and strong pseudomonotonicity. (Chinese. English summary)
**Zagrodny, Dariusz** Equilibrium of maximal monotone operator in a given set. (English summary) **2001m:49023**

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## 47H06 Accretive operators, dissipative operators, etc.

**Barthélemy, Louise** (*with* Boulaamayel, Bennasser) Sous-solutions de certains opérateurs de $\mathbf{R}^2$. [Subsolutions of certain operators in $\mathbf{R}^2$] **2001k:47076**
**Boulaamayel, Bennasser** *see* **Barthélemy, Louise, 2001k:47076**
**Elin, Mark** (*with* Reich, Simeon; Shoikhet, David) Holomorphically accretive mappings and spiral-shaped functions of proper contractions. (English summary) **2001j:47062**
**Fan, Rui Qin** Some mapping theorems for $m$-accretive odd operators in Banach spaces. (Chinese. English and Chinese summaries) **2001a:47055**
**Kumar, Rajiv** Remarks on perturbation of $m$-accretive operators. (English summary) **2001c:47060**
**Lan, K. Q.** $A$-properness and fixed point theorems for sums of dissipative and ball-condensing maps. (English summary) **2001b:47086**
**Reich, Simeon** (*with* Zaslavski, Alexander J.) Infinite products of resolvents of accretive operators. (English summary) **2001k:47077**
— *see also* **Elin, Mark et al., 2001j:47062**
**Shoikhet, David** *see* **Elin, Mark et al., 2001j:47062**
**Wang, Li Ping** Some mapping theorems for perturbations of $m$-accretive operators in Banach spaces. (Chinese. English and Chinese summaries) **2001h:47088**
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**Andrade, Doherty** A note on solvability of the nonlinear abstract viscoelastic problem in Banach spaces. (English summary) **2001c:34166**
**Chidume, C. E.** (*with* Moore, Chika) Steepest descent method for equilibrium points of nonlinear systems with accretive operators. (English summary) **2001a:47075**
**Cho, Yeol Je** *see* **Zhang, Shi Sheng et al., 2001c:47076** *and* **Xue, Zhi Qun et al., 2001j:47082**
**Chueshov, Igor D.** ★ Введение в теорию бесконечномерных диссипативных систем. (Russian. English and Russian summaries) [Introduction to the theory of infinite-dimensional dissipative systems] **2001k:37126**
**Ding, Xie Ping** (*with* Zhang, Hong Lin) Iterative process to $\varphi$-hemicontractive operator and $\varphi$-strongly accretive operator equations. (Chinese. English and Chinese summaries) **2001m:47133**
**Domokos, A.** Implicit function theorems for $m$-accretive and locally accretive set-valued mappings. **2001h:47101**
**Fu, Xianlong** (*with* Song, Shu Ni) The generalized topological degree for multivalued compact perturbations of $M$-accretive operators and applications. **2001k:47088**
**Harris, Lawrence A.** (*with* Reich, Simeon; Shoikhet, David) Dissipative holomorphic functions, Bloch radii, and the Schwarz lemma. **2001k:46074**
**Huang, Zhenyu** Almost $T$-stability of the iteration procedures with errors for strongly pseudocontractions in $q$-uniformly smooth Banach spaces without continuity assumption. (English summary) **2001h:47109**
**Jung, Il Hyo** *see* **Zhang, Shi Sheng et al., 2001c:47076**
**Kang, Shin Min** *see* **Liu, Zeqing, 2001m:47134**
**Lee, Byung Soo** *see* **Zhang, Shi Sheng et al., 2001c:47076**
**Liu, Li Shan** Ishikawa and Mann iterative processes with errors for nonlinear operator equations of strongly accretive and strongly pseudo-contractive type in Banach spaces. (English summary) **2001b:47121**
**Liu, Zeqing** (*with* Kang, Shin Min) Convergence theorems for $\varphi$-strongly accretive and $\varphi$-hemicontractive operators. (English summary) **2001m:47134**
**Luo, Yuan Song** Iterative solutions for equations with $m$-accretive mappings in Banach spaces. (Chinese. English and Chinese summaries) **2001e:47106**
**McKibben, Mark** On some nonlinear nonlocal autonomous Cauchy problems in Banach spaces. (English summary) **2001c:34126**
**Moore, Chika** Picard iterations for solution of nonlinear equations in certain Banach spaces. (English summary) **2001a:47076**
— *see also* **Chidume, C. E., 2001a:47075**
**Ni, Ren Xing** A necessary and sufficient condition for strong convergence of iterative methods for accretive operators and contraction semigroups. (Chinese. English and Chinese summaries) **2001j:65094**
**Peszyńska, Malgorzata** (*with* Showalter, R. E.) A transport model with adsorption hysteresis. (English summary) **2001a:35041**
**Plekhova, È. V.** Stable solvability of monotone and accretive operators. (Russian) **2001g:47116**
**Reich, Simeon** *see* **Harris, Lawrence A. et al., 2001k:46074**
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**Song, Shu Ni** *see* **Fu, Xianlong, 2001k:47088**
**Takahashi, Wataru** Convergence theorems for resolvents of accretive operators and convex minimization problems. (Japanese) (*see* **2001b:90003**)
**Tanabe, Hiroki** Parabolic unilateral problem in $L^p$. (English summary) (*see* **2001a:00026**)
**Wei, Gai Ran** *see* **Xue, Zhi Qun**
**Wei, Li** A study of the existence of solutions of elliptic boundary value problems using the theory of accretive operators. (Chinese. English and Chinese summaries) **2001b:35125**
**Xue, Zhi Qun** (*with* Zhou, Hai Yun; Cho, Yeol Je) Iterative solutions of nonlinear equations for $m$-accretive operators in Banach spaces. (English summary) **2001j:47082**
— (*with* Wei, Gai Ran) A remark on iterative approximation of solutions to $m$-accretive operator equations. (Chinese. English and Chinese summaries)
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**Zhang, Hong Lin** *see* **Ding, Xie Ping, 2001m:47133**
**Zhang, Shi Sheng** Accretive equations in cone of Banach space. (English summary) **2001h:47103**
— On the convergence problems of Ishikawa and Mann iterative processes with error for Φ-pseudo contractive type mappings. (Chinese. English and Chinese summaries) **2001c:47080**
— (*with* Cho, Yeol Je; Lee, Byung Soo; Jung, Il Hyo) Generalized set-valued variational inclusions in Banach spaces. (English summary) **2001c:47076**
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**Zhou, Hai Yun** Remarks on the approximation methods for nonlinear operator equations of the $m$-accretive type. **2001j:47083**
— *see also* **Xue, Zhi Qun et al., 2001j:47082**

## 47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

**Chen, Yong-Zhuo** Path stability and nonlinear weak ergodic theorems. (English summary) **2001b:47087**
**Kusraev, A. G.** (*with* Pliev, M. A.) Orthogonally additive majorized operators. (Russian) **2001i:47087**
**Pliev, M. A.** *see* **Kusraev, A. G., 2001i:47087**
**Reich, Simeon** (*with* Zaslavski, Alexander J.) Convergence of generic infinite products of homogeneous order-preserving mappings. (English summary) **2001f:47092**
— (*with* Rubinov, Aleksandr M.; Zaslavski, Alexander J.) Generic power convergence of order-perserving mappings. **2001g:47100**
**Rubinov, Aleksandr M.** *see* **Reich, Simeon et al., 2001g:47100**
**Rudolf, Boris** Monotone iterative technique and connectedness of the set of solutions. (English summary) **2001j:47063**
**Zaslavski, Alexander J.** *see* **Reich, Simeon et al., 2001f:47092** *and* **2001g:47100**

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**Albrecht, Julius** (*with* Klein, P. P.) On the matrix norm subordinate to the Hölder norm. (English summary) **2001d:15026**
**Caponetti, Diana** (*with* De Pascale, Espedito; Zabreĭko, Petr Petrovich) On the Newton-Kantorovich method in $K$-normed spaces. (English summary) **2001j:47079**
**Dager Salomón, René** *see* **Nápoles Valdés, Juan E., 2001a:34034**
**De Pascale, Espedito** *see* **Caponetti, Diana et al., 2001j:47079**
**Gong, Zeng Tai** *see* **Liu, Xiao Ying, 2001h:47095**
**Klein, P. P.** *see* **Albrecht, Julius, 2001d:15026**
**Li, Fu Yi** Improvement on Amann's three-solution theorem and applications. (Chinese. English and Chinese summaries) **2001a:47058**
**Liu, Xiao Ying** (*with* Wu, Cong Xin) Existence of coupled quasi-fixed points for mixed monotone operators and its application to the discontinuous integral equations. (English summary) **2001a:47059**
— (*with* Gong, Zeng Tai) Existence theorems of couple quasi-fixed points for $\alpha$-contractive mixed monotone operators. (Chinese. English and Chinese summaries) **2001h:47095**
**Lou, Bendong** Eigenvectors of system of Hammerstein integral equations in Banach spaces and applications. (English summary) **2001f:45007**
**Mosyagin, V. V.** (*with* Shirokov, B. M.) Monotone operators in $F$-spaces with a cone. (Russian. English and Russian summaries) **2001a:47060**
**Nápoles Valdés, Juan E.** (*with* Dager Salomón, René) The positive spectrum of an operator in the theory of elasticity. (Spanish. English and Spanish summaries) **2001a:34034**
**Šeda, Valter** Monotone-iterative technique for decreasing mappings. **2001f:47106**
**Shirokov, B. M.** *see* **Mosyagin, V. V., 2001a:47060**
**Wu, Cong Xin** *see* **Liu, Xiao Ying, 2001a:47059**
**Zabreĭko, Petr Petrovich** *see* **Caponetti, Diana et al., 2001j:47079**
**Zhang, Fei Ran** The iterative solutions of a system of non-continuous and non-compact binary operator equations in Banach spaces. (Chinese. English and Chinese summaries)

## 47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, $A$-proper mappings, $K$-set contractions, etc.)

**Aniagbosor, S. C.** *see* **Osilike, Micah Okwuchukwu, 2001h:47089**

**Appell, Jürgen M.** (*with* Zabreĭko, Petr Petrovich) Some elementary examples in nonlinear operator theory. (English summary) **2001i:47088**

**Atsushiba, Sachiko** (*with* Takahashi, Wataru) Strong convergence theorems for a finite family of nonexpansive mappings and applications. (English summary) **2001j:47064**

— (*with* Takahashi, Wataru) A nonlinear strong ergodic theorem for nonexpansive mappings with compact domains. (English summary) **2001i:47089**

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**Butnariu, Dan** (*with* Reich, Simeon; Zaslavski, Alexander J.) Generic power convergence of operators in Banach spaces. (English summary) **2001e:47085**

**Deng, Lei** (*with* Li, Sheng Hong) Ishikawa iteration process with errors for nonexpansive mappings in uniformly convex Banach spaces. (English summary) **2001k:47078**

**Djafari Rouhani, Behzad** (*with* Kirk, W. A.) Asymptotic properties of nonexpansive iterations in reflexive spaces. (English summary) **2001a:47056**

— An ergodic theorem for sequences in a Hilbert space. (English summary) **2001c:47061**

**Espínola, Rafael** (*with* López Acedo, Genaro) Ultimately compact operators in hyperconvex metric spaces. (English summary) **2001c:47062**

**Gao, Wei** *see* **Gu, Feng[1]**

**Gonicka, Joanna** *see* **Wlodarczyk, Kazimierz, 2001e:47088**

**Gu, Feng[1]** (*with* Gao, Wei) Approximating fixed points of $\Phi$-hemicontractive mappings by the Ishikawa iteration process in nonlinear linear spaces. (Chinese. English and Chinese summaries)

**Hoàng Xuân Phú** (*with* Tran Van Truong) Invariant property of roughly contractive mappings. (English summary) **2001m:47109**

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**Kim, Jong Kyu** (*with* Li, Gang[1]) Nonlinear ergodic theorems for reversible semigroups of Lipschitzian mappings in Banach spaces. (English summary) **2001f:47093**

**Kim, Tae Hwa** Some existence results for mappings of asymptotically nonexpansive type. (English summary) **2001b:47088**

— (*with* Xu, Hong-Kun) Remarks on asymptotically nonexpansive mappings. **2001b:47089**

**Kirk, W. A.** *see* **Djafari Rouhani, Behzad, 2001a:47056**

**Li, Gang[1]** *see* **Kim, Jong Kyu, 2001f:47093**

**Li, Sheng Hong** *see* **Deng, Lei, 2001k:47078**

**López Acedo, Genaro** *see* **Espínola, Rafael, 2001c:47062**

**Miyadera, Isao** Nonlinear ergodic theorems for semigroups of non-Lipschitzian mappings in Hilbert spaces. (English summary) **2001e:47086**

**Morales, Claudio H.** (*with* Jung, Jong Soo) Convergence of paths for pseudocontractive mappings in Banach spaces. (English summary) **2001b:47090**

**Nishiura, Koji** Asymptotic behavior of almost-orbits of asymptotically nonexpansive semigroups in Banach spaces. (English summary) **2001e:47087**

**Osilike, Micah Okwuchukwu** (*with* Aniagbosor, S. C.) Weak and strong convergence theorems for fixed points of asymptotically nonexpansive mappings. (English summary) **2001h:47089**

**Park, Sehie** (*with* Sims, Brailey) Remarks on fixed point theorems in hyperconvex spaces. (English summary) **2001m:47110**

**Reich, Simeon** (*with* Zaslavski, Alexander J.) Almost all nonexpansive mappings are contractive. (English and French summaries) **2001h:47090**

— *see also* **Butnariu, Dan et al., 2001e:47085**

**Rybicki, Sławomir** Degree for $S^1$-equivariant strongly indefinite functionals. **2001m:47111**

**Šeda, Valter** On condensing discrete dynamical systems. (English summary) **2001m:47112**

**Shioji, Naoki** (*with* Takahashi, Wataru) A strong convergence theorem for asymptotically nonexpansive mappings in Banach spaces. (English summary) **2001b:47091**

— (*with* Takahashi, Wataru) Strong convergence theorems for asymptotically nonexpansive semigroups in Banach spaces. (English summary) **2001g:47101**

**Sims, Brailey** *see* **Park, Sehie, 2001m:47110**

**Suzuki, Tomonari** Strong convergence theorems concerning fixed points of nonexpansive maps in Banach spaces. (Japanese) (*see* **2001d:00047**)

**Takahashi, Wataru** *see* **Shioji, Naoki, 2001b:47091**; **2001g:47101**; **Atsushiba, Sachiko, 2001c:47089** *and* **2001j:47064**

**Tamura, Takayuki** Convergence theorems of iterations for a pair of nonexpansive mappings in a Banach space. **2001i:47090**

**Tran Van Truong** *see* **Hoàng Xuân Phú, 2001m:47109**

**Wlodarczyk, Kazimierz** (*with* Gonicka, Joanna) Random iterations of holomorphic contractions in locally convex spaces and of weaker contractions in uniform spaces. (English summary) **2001e:47088**

**Xu, Hong-Kun** *see* **Kim, Tae Hwa, 2001b:47089**

**Yang, Yong Qin** The Ishikawa iteration process with errors for nonexpansive mappings. (Chinese. English and Chinese summaries)

**Yoshimoto, Takeshi** Dirichlet method of summability and nonlinear ergodic theorems in Hilbert space. (*see* **2001d:00047**)

**Zabreĭko, Petr Petrovich** *see* **Appell, Jürgen M., 2001i:47088**

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— (*with* O'Regan, Donal) Fixed point theory for $k$-CAR sets. (English summary) **2001h:47091**

**Akian, Marianne** (*with* Bliman, Pierre-Alexandre) On super-high frequencies in discontinuous 1st-order delay-differential equations. (English summary) **2001d:34112**

**Angelov, Vasil G.** On the iterative test for $J$-contractive mappings in uniform spaces. (English summary) **2001f:54030**

**Baccelli, François** (*with* Hong, Dohy) Analyticity of iterates of random non-expansive maps. (English summary) **2001e:60134**

**Banaś, Józef** (*with* Méndez-Rodríguez, Juan; Sadarangani, Kishin) On a class of Urysohn-Stieltjes quadratic integral equations and their applications. (English summary) **2001h:45007**

**Baronti, M.** (*with* Papini, Pier Luigi) Up and down along rays. (English summary) **2001h:46005**

**Bliman, Pierre-Alexandre** *see* **Akian, Marianne, 2001d:34112**

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**Chen, Shu Tao** (*with* Lin, Bor-Luh) Banach spaces with weakly normal structure. **2001f:46017**

**Chen, Yong-Zhuo** Path stability and nonlinear weak ergodic theorems. (English summary) **2001b:47087**

**Cho, Yeol Je** *see* **Jung, Jong Soo et al., 2001g:47107**

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**Domínguez Benavides, Tomás** (*with* García Falset, Jesús; Japón Pineda, María A.) The $\tau$-fixed point property for nonexpansive mappings. (English summary) **2001f:47095**

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**Duma, Adrian** Sums of contractions. (English summary) **2001m:47129**

**Fan, Jiang Hua** Fixed point theorems in locally convex spaces. (Chinese. English and Chinese summaries) **2001e:47089**

**Feng, Wenying** (*with* Webb, J. R. L.) A spectral theory for semilinear operators and its applications. (English summary) **2001d:47102**

— Decomposition conditions for two-point boundary value problems. (English summary) **2001g:34018**

**Frigon, M.** Fixed point results for generalized contractions in gauge spaces and applications. (English summary) **2001d:47084**

**García Falset, Jesús** *see* **Domínguez Benavides, Tomás et al., 2001f:47095**

**Hong, Dohy** *see* **Baccelli, François, 2001e:60134**

**Hu, Chang Song** Convergence theorems for AP-iteration processes for asymptotically hemicontractive mappings in $L_p$. (Chinese. English and Chinese summaries) **2001b:47119**

**Huang, Jia Lin** Ishikawa iteration process with errors for sequences of nonexpansive mappings. (Chinese. English and Chinese summaries)

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## 47H14 Perturbations of nonlinear operators

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**Kornev, A. A.** A criterion for the complete continuity of an attractor with respect to a parameter for a class of semidynamical systems. (Russian) **2001b:37114**
— On the approximation of attractors of semidynamical systems. (Russian. Russian summary) **2001c:37096**
**Kuczumow, Tadeusz** *see* **Budzyńska, Monika et al., 2001k:47081**
**Li, Gang[1]** *see* **Kim, Jong Kyu, 2001f:47093**
**Ligarius, Philippe** *see* **Couchouron, Jean-François, 2001c:34128**
**Lin, Chin-Yuan** Cauchy problems and applications. (English summary) **2001e:34125**
**Loskot, Krzysztof** Bounded solutions of a system of partial differential equations describing interacting cell populations. (English summary)
**Lu, Kening** *see* **Bates, Peter W. et al., 2001b:37031**
**Lubich, Christian** *see* **van Dorsselaer, Jos L. M., 2001d:37145**
**Magal, P.** (*with* Webb, Glenn F.) Mutation, selection, and recombination in a model of phenotype evolution. (English summary) **2001g:92018**
**Mel'nik, V. S.** *see* **Vasil'kevich, S. I. et al., 2001d:37147**
**Miyadera, Isao** Nonlinear ergodic theorems for semigroups of non-Lipschitzian mappings in Hilbert spaces. (English summary) **2001e:47086**
**Nishiura, Koji** Asymptotic behavior of almost-orbits of asymptotically nonexpansive semigroups in Banach spaces. (English summary) **2001e:47087**
**Okazawa, Noboru** *see* **Unai, A., 2001c:35226**
**Rassias, Themistocles M.** *see* **Faiziev, Valerii, 2001m:39079**
**Reich, Simeon** *see* **Elin, Mark et al., 2001j:47062** *and* **Budzyńska, Monika et al., 2001k:47081**
**Reinfelds, Andrejs** A note on the Lipschitz center manifold. (English and Latvian summaries) **2001f:34121**
**Ruan, Shigui** (*with* Zhao, Xiao-Qiang) Persistence and extinction in two species reaction-diffusion systems with delays. (English summary) **2001a:92040**
**Segura de León, S.** (*with* Toledo, Julián) Regularity for entropy solutions of parabolic $p$-Laplacian type equations. (English summary) **2001f:35187**
**Shatah, Jalal** (*with* Strauss, Walter A.) Spectral condition for instability. (English summary) **2001c:34127**
**Shioji, Naoki** (*with* Takahashi, Wataru) Strong convergence theorems for asymptotically nonexpansive semigroups in Banach spaces. (English summary) **2001g:47101**
**Shoikhet, David** *see* **Elin, Mark et al., 2001j:47062**
**Sidki, O.** *see* **Arino, Ovide, 2001a:34136**
**Slastikov, V. V.** *see* **Vasil'kevich, S. I. et al., 2001d:37147**
**Strauss, Walter A.** *see* **Shatah, Jalal, 2001c:34127**
**Takahashi, Wataru** *see* **Shioji, Naoki, 2001g:47101**
**Toledo, Julián** *see* **Segura de León, S., 2001f:35187**
**Unai, A.** (*with* Okazawa, Noboru) Perturbations of nonlinear $m$-sectorial operators and time-dependent Ginzburg-Landau equations. **2001c:35226**
**Vasil'kevich, S. I.** (*with* Mel'nik, V. S.; Slastikov, V. V.) On global attractors of nonautonomous infinite-dimensional dynamical systems without uniqueness of solutions. (Russian. English, Russian and Ukrainian summaries) **2001d:37147**
**Webb, Glenn F.** *see* **Magal, P., 2001g:92018**
**Xu, Hong-Kun** Asymptotic behavior of a gradient flow. (English summary) **2001m:47131**
**Zeng, Chongchun** *see* **Bates, Peter W. et al., 2001b:37031**
**Zhao, Xiao-Qiang** *see* **Ruan, Shigui, 2001a:92040**

## 47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [see also 45Gxx, 45P05]

**Banaś, Józef** On nonlinear Volterra-Stieltjes integral operators. (English summary) **2001b:47105**
**Emmanuele, G.** Remarks on Hammerstein integral operators. (English summary) **2001g:47110**
**Farkas, Gyula[2]** (*with* Garay, Barnabas M.) The operator of inversion as an everywhere continuous nowhere differentiable function. (English summary) **2001k:47090**
— (*with* Garay, Barnabas M.) A non-differentiability result for the inversion operator between Sobolev spaces. (English summary) **2001i:47103**
**Garay, Barnabas M.** *see* **Farkas, Gyula[2], 2001i:47103** *and* **2001k:47090**
**Labutin, Denis A.** Superposition operator in Sobolev spaces on domains. (English summary) **2001b:47106**
**Lanza de Cristoforis, Massimo** Differentiability properties of an abstract autonomous composition operator. **2001c:47069**
— (*with* Rogosin, Sergei V.) Analyticity of a nonlinear operator associated to the conformal representation in Schauder spaces. An integral equation approach. (English summary) **2001k:47091**
**Rogosin, Sergei V.** *see* **Lanza de Cristoforis, Massimo, 2001k:47091**
**Trombetta, Alessandro** $t$-osculating operators in a space of continuous functions and applications. (English summary) **2001m:47128**
**Tunaru, Radu** An extension of invertibility of Hammerstein-type operators. (English summary) **2001a:47068**

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**Appell, Jürgen M.** (*with* De Pascale, Espedito; Zabreĭko, Petr Petrovich) On the unique solvability of Hammerstein integral equations with non-symmetric kernels. (English summary) **2001g:45003**
**Bardaro, Carlo** (*with* Vinti, Gianluca) Nonlinear integral operators in modular Lipschitz classes: rates of modular approximation. **2001d:47072**
— (*with* Musielak, Julian; Vinti, Gianluca) On nonlinear integro-differential operators in generalized Orlicz-Sobolev spaces. (English summary) **2001g:47092**
**Christ, Michael** (*with* Kiselev, Alexander) Maximal functions associated to filtrations. (English summary) **2001b:47054**
**Coclite, Mario Michele** Positive solutions of a Hammerstein integral equation with a singular nonlinear term. (English summary) **2001f:45006**
**Darwish, M. A.** On a system of nonlinear integral equations with hysteresis. (English summary) **2001a:45017**
**De Pascale, Espedito** *see* **Appell, Jürgen M. et al., 2001g:45003**
**Juniewicz, Maciej** *see* **Nguyễn Hồng Thái et al., 2001g:54022**
**Kiselev, Alexander** *see* **Christ, Michael, 2001b:47054**
**Li, Fu Yi** Improvement on Amann's three-solution theorem and applications. (Chinese. English and Chinese summaries) **2001a:47058**
**Ma, Jian** Hölder dual spaces for Banach spaces and Hölder dual operators of nonlinear Hölder operators. (Chinese. English and Chinese summaries) **2001g:46088**
**Musielak, Julian** *see* **Bardaro, Carlo et al., 2001g:47092**
**Mustonen, Vesa** (*with* Tienari, Matti) On monotone-like mappings in Orlicz-Sobolev spaces. (English summary) **2001j:47060**
**Nguyễn Hồng Thái** (*with* Juniewicz, Maciej; Ziemińska, J.) CM-selectors for pairs of oppositely semicontinuous multifunctions and some applications to strongly nonlinear inclusions. (English summary) **2001g:54022**
**O'Regan, Donal** Sample solutions of stochastic integral equations. (English summary) (*see* **2001a:45003**)
**Papageorgiou, Nikolaos S.** (*with* Yannakakis, Nikolaos) Hammerstein integral inclusions in Banach spaces. (English summary) **2001g:45007**
**Smajdor, Wilhelmina** Note on Jensen and Pexider functional equations. (English summary) **2001h:39031**
**Sukhinin, M. F.** Two fixed-point theorems. (Russian. Russian summary) **2001f:47100**
**Tienari, Matti** *see* **Mustonen, Vesa, 2001j:47060**
**Valent, Tullio** Nonlinear symmetries of mappings. Existence theorems for a perturbation problem in the presence of symmetries. **2001f:58019**
**Vianello, Marco** Existence of positive continuous solutions of perturbed Hammerstein equations. (English summary) **2001a:45016**
**Vinti, Gianluca** *see* **Bardaro, Carlo et al., 2001d:47072** *and* **2001g:47092**
**Vrsintin, Augusto** Mathematical models of hysteresis. A survey. **2001d:47110**
**Yang, Guang Chong** Quasi-weak convergence with applications in ordered Banach space. (Chinese. English and Chinese summaries) **2001d:47093**
**Yannakakis, Nikolaos** *see* **Papageorgiou, Nikolaos S., 2001g:45007**
**Zabreĭko, Petr Petrovich** *see* **Appell, Jürgen M. et al., 2001g:45003**
**Ziemińska, J.** *see* **Nguyễn Hồng Thái et al., 2001g:54022**

## 47H40 Random operators [see also 60H25]

**Chen, Bai Li** *see* **Li, Guo, 2001c:47070**
**Duan, Wu-duo** *see* **Zhu, Chuan Xi, 2001b:47107**
**Fang, Jin Xuan** (*with* Song, Gui An) A note on probabilistic contractor couple and solutions for a system of nonlinear equations in N. A. Menger PN-spaces. (Chinese. English and Chinese summaries) **2001f:47104**
**Latif, Abdul** *see* **Shahzad, Naseer, 2001c:47071**
**Li, Guo** (*with* Chen, Bai Li) Convergence of random products of projection operators. (Chinese. English and Chinese summaries) **2001c:47070**
**Shahzad, Naseer** (*with* Latif, Abdul) A random coincidence point theorem. (English summary) **2001c:47071**
— Random approximations and random coincidence points of multivalued random maps with stochastic domain. (English summary) **2001g:47111**
**Song, Gui An** *see* **Fang, Jin Xuan, 2001f:47104**
**Zhu, Chuan Xi** (*with* Duan, Wu-duo) Acute angle principle and its application in random functional analysis. (English and Chinese summaries) **2001b:47107**

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**Almasri, Ibrahim** (*with* Li, Jinlu; Tonge, Andrew) Random trilinear forms and the Schur multiplication of tensors. (English summary) **2001c:46031**
**Baccelli, François** (*with* Hong, Dohy) Analyticity of iterates of random non-expansive maps. (English summary) **2001e:60134**
**Beg, Ismat** (*with* Shahzad, Naseer) An application of a random fixed point theorem to random best approximation. (English summary) **2001c:47064**
**Cho, Yeol Je** *see* **Jung, Jong Soo et al., 2001g:47107**
**Debnath, Lokenath** *see* **Li, Guo Zhen[1], 2001b:45012**
**Gonicka, Joanna** *see* **Włodarczyk, Kazimierz, 2001e:47088**
**Hong, Dohy** *see* **Baccelli, François, 2001e:60134**
**Jung, Jong Soo** (*with* Cho, Yeol Je; Kang, Shin Min; Lee, Byung Soo; Thakur, Balwant Singh) Random fixed point theorems for a certain class of mappings in Banach spaces. (English summary) **2001g:47107**
**Kang, Shin Min** *see* **Jung, Jong Soo et al., 2001g:47107**
**Lee, Byung Soo** *see* **Jung, Jong Soo et al., 2001g:47107**
**Li, Guo Zhen[1]** (*with* Debnath, Lokenath) The existence theorems of the random solutions for random Hammerstein type nonlinear integral equations. (English summary) **2001b:45012**
**Li, Jinlu** *see* **Almasri, Ibrahim et al., 2001c:46031**
**O'Regan, Donal** Fixed-point and random fixed-point theorems in cones of Banach spaces. (English summary) **2001k:47084**
**Shahzad, Naseer** Remarks on the extension of random contractions.
— *see also* **Beg, Ismat, 2001c:47064**
**Thakur, Balwant Singh** *see* **Jung, Jong Soo et al., 2001g:47107**
**Thorbjørnsen, S.** Mixed moments of Voiculescu's Gaussian random matrices. (English summary) **2001h:46119**
**Tonge, Andrew** *see* **Almasri, Ibrahim et al., 2001c:46031**
**Włodarczyk, Kazimierz** (*with* Gonicka, Joanna) Random iterations of holomorphic contractions in locally convex spaces and of weaker contractions in uniform spaces. (English summary) **2001e:47088**

**Wu, Jian Rong**[2] Random fixed point theorems for set-valued functions. (Chinese. English and Chinese summaries)

## 47H60 Multilinear and polynomial operators [see also 46G25]

**Braunss, H.-A.** (*with* Junek, H.; Plewnia, E.) Approximation numbers for polynomials. (English summary) **2001g:47112**
**Junek, H.** *see* **Braunss, H.-A. et al., 2001g:47112**
**Llavona, José G.** Polynomial continuity. (Russian. English and Russian summaries) **2001j:47073**
**Plewnia, E.** *see* **Braunss, H.-A. et al., 2001g:47112**

Items with secondary classifications in 47H60

**Botelho, Geraldo** Almost summing polynomials. (English summary) **2001d:46069**
**Khlobystov, V. V.** *see* **Makarov, Vladimir L., 2001a:41002**
**Llavona, José G.** Polynomial continuity on Banach spaces. **2001h:46077**
**Makarov, Vladimir L.** (*with* Khlobystov, V. V.) ★ Основы теории полиномиального операторного интерполирования. (Russian. English and Ukrainian summaries) [Principles of the theory of polynomial operator interpolation] **2001a:41002**

## 47H99 None of the above, but in this section

**Appell, Jürgen M.** (*with* Conti, Giuseppe; Santucci, Paola) Some remarks on numerical ranges for nonlinear operators. (Italian. English summary) **2001g:47113**
— Ein "merkwürdiges" Spektrum für nichtlineare Operatoren. (English summary) [A "peculiar" spectrum for nonlinear operators] **2001g:47114**
**Conti, Giuseppe** *see* **Appell, Jürgen M. et al., 2001g:47113**
**Daugavet, I. K.** On polynomial approximation of operators. (English summary)
**Duma, Adrian** Sums of contractions. (English summary) **2001m:47129**
**Kloeden, Peter E.** (*with* Rubinov, Aleksandr M.) A generalization of the Perron-Frobenius theorem. **2001b:47108**
**Lai, Chun Hui** Convex sets and contractive operators. (Chinese. English and Chinese summaries) **2001a:47069**
**O'Regan, Donal** Homotopy and epi maps. (English summary) **2001a:47070**
**Rădulcanu, Dorina** Alpha-spiral mappings of a Banach space into the complex plane. (English summary) (*see* **2001h:30003**)
**Ruan, Ying Bin** A generalization of Dini's theorem. (Chinese. English and Chinese summaries) **2001m:47130**
**Rubinov, Aleksandr M.** *see* **Kloeden, Peter E., 2001b:47108**
**Santucci, Paola** *see* **Appell, Jürgen M. et al., 2001g:47113**
**Szczepański, Janusz** A new result on the Nirenberg problem for expanding maps. **2001i:47104**
**Tabor, Jacek** Stability of surjectivity. (English summary) **2001f:47105**
**Tam, Ping-Kwan** (*with* Tan, Kok-Keong) Mean ergodic theorems for affine operators. (English summary) **2001k:47092**
**Tan, Kok-Keong** *see* **Tam, Ping-Kwan, 2001k:47092**

Items with secondary classifications in 47H99

**Adamyan, Vadim M.** (*with* Langer, Heinz; Tretter, Christiane) Existence and uniqueness of contractive solutions of some Riccati equations. (English summary) **2001j:34074**
**Appell, Jürgen M.** (*with* Zabreĭko, Petr Petrovich) Some elementary examples in nonlinear operator theory. (English summary) **2001i:47088**
— (*with* De Pascale, Espedito; Vignoli, Alfonso) A comparison of different spectra for nonlinear operators. **2001g:47117**
**Baillon, Jean-Bernard** (*with* Bruck, Ronald E.) On the random product of orthogonal projections in Hilbert space. **2001g:47001**
**Breckner, Wolfgang W.** (*with* Trif, Tiberiu) Equicontinuity and Hölder equicontinuity of families of generalized convex mappings. (English summary) **2001j:47091**
**Bruck, Ronald E.** *see* **Baillon, Jean-Bernard, 2001g:47001**
**Calvert, Bruce** (*with* Fitzpatrick, S. P.) Erratum: "In a nonreflexive space the subdifferential is not onto" [Math. Z. **189** (1985), no. 4, 555–560; MR 87c:46021]. **2001m:46015**
**Cattaneo, Gianpiero** *see* **Del Seta, Marco, 2001h:81027**
**Chen, Tze-Jang** (*with* Lin, Jenn-Tsann; Cooke, Charlie H.) The range of the iterated matrix adjoint operator. (English summary) **2001m:15064**
**Chen, Yong-Zhuo** Path stability and nonlinear weak ergodic theorems. (English summary) **2001b:47087**
**Choda, Hisashi** *see* **Miura, Takeshi et al., (2001d:00047)**
**Cooke, Charlie H.** *see* **Chen, Tze-Jang et al., 2001m:15064**
**Del Seta, Marco** (*with* Cattaneo, Gianpiero) A Hilbert space realization of nonlinear quantum mechanics as classical extension of its linear counterpart. (English summary) **2001h:81027**
**De Pascale, Espedito** *see* **Appell, Jürgen M. et al., 2001g:47117**
**Fitzpatrick, S. P.** *see* **Calvert, Bruce, 2001m:46015**
**(Hirsch, Morris W.)** *see* **Mierczyński, Janusz, 2001d:37024**
**Isac, George** $(0,k)$-epi mappings. Applications to complementarity theory. (English summary) **2001m:90110**
— Condition $(S)^1_+$, Altman's condition and the scalar asymptotic derivative: applications to complementarity theory. **2001j:49013**
**Ji, Da Qin** *see* **Wang, Yu Wen, 2001d:47007**
**Jun, Kil Woung** (*with* Shin, Dong-Soo; Kim, Byung-Do) On Hyers-Ulam-Rassias stability of the Pexider equation. (English summary) **2001c:39052**
— *see also* **Lee, Yang-Hi, 2001k:39044**
**Jung, Soon-Mo** (*with* Kim, Byungbae) Stability of isometries on restricted domains. (English summary) **2001g:39061**
— (*with* Sahoo, Prasanna K.) On the Hyers-Ulam stability of a functional equation of Davison. (English summary) **2001d:39027**
**Karpińska, Wioletta** A note on bounded solutions of second order differential equations at resonance. (English summary) **2001h:34056**
**Kim, Byung-Do** *see* **Jun, Kil Woung et al., 2001c:39052**
**Kim, Byungbae** *see* **Jung, Soon-Mo, 2001g:39061**
**Langer, Heinz** *see* **Adamyan, Vadim M. et al., 2001j:34074**
**Lee, Yang-Hi** (*with* Jun, Kil Woung) A generalization of the Hyers-Ulam-Rassias stability of the Pexider equation. (English summary) **2001k:39044**
**Lim, Teck-Cheong** On moduli of $k$-convexity. **2001m:46018**
**Lin, Jenn-Tsann** *see* **Chen, Tze-Jang et al., 2001m:15064**
**Liu, Shun Bao** *see* **Xuan, Heng Nong, 2001m:46040**
**Marchuk, G. I.** *see* **Vladimirov, V. S., 2001i:47001**
**Miculescu, Radu** Some applications of Lip-partition of unity. (English summary)
**Mierczyński, Janusz** A remark on M. W. Hirsch's paper: "Chain transitive sets for smooth strongly monotone dynamical systems" [Dynam. Contin. Discrete Impuls. Systems **5** (1999), no. 1-4, 529–543; MR 2000e:37017]. (English summary) **2001d:37024**
**Miura, Takeshi** (*with* Takahasi, Sin-Ei; Choda, Hisashi) On Hyers-Ulam stability of differentiable mapping that take the value of real continuous functions. (Japanese) (*see* **2001d:00047**)
**Park, Sehie** Remarks on topologies of generalized convex spaces. (English summary) **2001m:47107**
**Przeworska-Rolewicz, Danuta** Non-Leibniz algebras with logarithms do not have the trigonometric identity. (English summary) **2001e:47009**
**Rassias, Themistocles M.** On the stability of functional equations and a problem of Ulam. (English summary) **2001j:39042**
— The problem of S. M. Ulam for approximately multiplicative mappings. (English summary) **2001h:39033**
— (*with* Xiang, Shuhuang) On Mazur-Ulam theorem and mappings which preserve distances. (English summary) **2001i:46029**
**Reich, Simeon** (*with* Zaslavski, Alexander J.) Asymptotic behavior of dynamical systems with a convex Lyapunov function. (English summary) **2001d:49041**
**Sahoo, Prasanna K.** *see* **Jung, Soon-Mo, 2001d:39027**
**Samoĭlenko, A. M.** (*with* Teplinskiĭ, Yu. V.) Limit theorems in the theory of periodic solutions of linear and quasilinear systems of difference equations. (Russian. Russian summary) **2001c:39014**
**Santucci, Paola** (*with* Väth, Martin) On the definition of eigenvalues for nonlinear operators. **2001g:47118**
**Shin, Dong-Soo** *see* **Jun, Kil Woung et al., 2001c:39052**
**Slyusarchuk, V. E.** Essentially unstable solutions of difference equations. (Russian. English and Ukrainian summaries) **2001g:39039**
**Smith, Hal L.** (*with* Waltman, Paul) Competition in the periodic gradostat. **2001j:92050**
**Takahasi, Sin-Ei** *see* **Miura, Takeshi et al., (2001d:00047)**
**Tararykova, T. V.** Adaptive inequalities with exact constants for operators that satisfy conditions of $p$-convexity or $p$-concavity type. (Russian)
**Teplinskiĭ, Yu. V.** *see* **Samoĭlenko, A. M., 2001c:39014**
**Tretter, Christiane** *see* **Adamyan, Vadim M. et al., 2001j:34074**
**Trif, Tiberiu** *see* **Breckner, Wolfgang W., 2001j:47091**
**Väth, Martin** Linear and nonlinear abstract Volterra equations. (English summary) **2001b:47023**
— *see also* **Santucci, Paola, 2001g:47118**
**Vignoli, Alfonso** *see* **Appell, Jürgen M. et al., 2001g:47117**
**Vladimirov, V. S.** (*with* Marchuk, G. I.) On the determination of a conjugate operator for nonlinear problems. (Russian) **2001i:47001**
**Waltman, Paul** *see* **Smith, Hal L., 2001j:92050**
**Wang, Yu Wen** (*with* Ji, Da Qin) The Tseng-metric generalized inverse for linear operators in Banach spaces. (Chinese. English and Chinese summaries) **2001d:47007**
**Xiang, Shuhuang** *see* **Rassias, Themistocles M., 2001i:46029**
**Xuan, Heng Nong** (*with* Liu, Shun Bao) An important property for $(\lambda,\mu)$-convex functionals. (Chinese. English and Chinese summaries) **2001m:46040**
**Zabreĭko, Petr Petrovich** *see* **Appell, Jürgen M., 2001i:47088**
**Zaslavski, Alexander J.** *see* **Reich, Simeon, 2001d:49041**

# 47Jxx Equations and inequalities involving nonlinear operators {For global and geometric aspects, see 58–XX.}

Items with secondary classifications in 47Jxx

**(Agarwal, Ravi P.)** *see* **Nonlinear operator theory, 2001f:47001**
**Ize, Jorge** Nonlinear analysis. (Spanish) (*see* **2001e:00020**)
**(O'Regan, Donal)** *see* **Nonlinear operator theory, 2001f:47001**

Items listed otherwise than by author

**Nonlinear operator theory** ★ Nonlinear operator theory. **2001f:47001**
**Special Issue:**
**Advanced topics in nonlinear operator theory** ★ Nonlinear operator theory. **2001f:47001**

## 47J05 Equations involving nonlinear operators (general)

**Ben-El-Mechaiekh, Hichem** On the solvability of nonlinear inclusions in infinite dimensions. (English summary) **2001b:47109**
**Berkovits, Juha** (*with* Mustonen, Vesa; Tienari, Matti) Systems of wave equations: matrix spectrum and nonresonance. (English summary) **2001k:47093**
**Biswas, Anamika** *see* **Mukherjee, Sulekha**
**Buica, Adriana** Strong surjections and nearness. (English summary) **2001b:47110**
**Di Bella, Beatrice** An existence theorem for a class of inclusions. (English summary) **2001b:47111**
**Domokos, A.** Implicit function theorems for $m$-accretive and locally accretive set-valued mappings. **2001h:47101**
**Ermilova, N. V.** A method for the parametrization of solutions in a neighborhood of a branch point. (Russian. Russian summary) **2001e:47094**
**Fečkan, Michal** Existence of nonzero nonnegative solutions of semilinear equations at resonance. (English summary) **2001c:47072**

— Multiple solutions of nonlinear equations via Nielsen fixed-point theory: a survey. (English summary) **2001e:47095**
**Gabor, Dorota** (*with* Kryszewski, Wojciech) On the solvability of systems of noncompact and nonconvex inclusions. (English summary) **2001g:47115**
**Idczak, Dariusz** Stability in semilinear problems. (English summary) **2001d:47098**
**Krasnosel'skiĭ, A. M.** (*with* Kuznetsov, Nikolai; Rachinskiĭ, D. I.) Resonance equations with unbounded nonlinearities. (Russian) **2001i:47105**
**Kryszewski, Wojciech** *see* **Gabor, Dorota, 2001g:47115**
**Kuznetsov, Nikolai** *see* **Krasnosel'skiĭ, A. M. et al., 2001i:47105**
**Lei, Jin-gan** *see* **Tian, Yan, 2001a:47071** *and* **Xiao, Jin Sheng, 2001b:47113**
**Milojević, P. S.** Nonresonant semilinear equations and applications to boundary value problems. (English summary) **2001d:47099**
— Existence and number of solutions to semilinear equations with applications to boundary-value problems. (English summary) **2001j:47075**
— Existence and the number of solutions of nonresonant semilinear equations and applications to boundary value problems. (English summary) **2001j:47074**
**Mukherjee, Sulekha** (*with* Biswas, Anamika) The solvability of a class of nonlinear equations. (English summary)
**Mustonen, Vesa** *see* **Berkovits, Juha et al., 2001k:47093**
**O'Regan, Donal** (*with* Precup, Radu) Fixed point theorems for set-valued maps and existence principles for integral inclusions. (English summary) **2001b:47112**
**Plekhova, È. V.** Stable solvability of monotone and accretive operators. (Russian) **2001g:47116**
**Precup, Radu** *see* **O'Regan, Donal, 2001b:47112**
**Rachinskiĭ, D. I.** *see* **Krasnosel'skiĭ, A. M. et al., 2001i:47105**
**Šeda, Valter** Monotone-iterative technique for decreasing mappings. **2001f:47106**
**Solonoukha, O. V.** On solvability of monotone type problems with non-coercive set-valued operators. (English summary) **2001j:47076**
**Tian, Yan** (*with* Lei, Jin-gan) On the monotone iterative method for set valued equation. (English summary) **2001a:47071**
**Tienari, Matti** *see* **Berkovits, Juha et al., 2001k:47093**
**Turinici, Mihai** Some global solvability results. (English summary) **2001k:47094**
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## 47J06 Nonlinear ill-posed problems

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— On the iteratively regularized Gauss-Newton method for solving nonlinear ill-posed problems. (English summary) **2001a:65073**
— (*with* Amato, Umberto) A discrete scheme of Landweber iteration for solving nonlinear ill-posed problems. (English summary) **2001k:65101**
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## 47J07 Abstract inverse mapping and implicit function theorems [see also 46T20 and 58C15]

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**Li, Yong Xiang** Supersolution and subsolution criteria for a class of nonlinear operator equations and their applications. (Chinese. English and Chinese summaries) **2001b:47115**
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## 47J10 Nonlinear eigenvalue problems

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**Dymarskiĭ, Ya. M.** On a priori estimates for normalized eigenfunctions of a class of quasilinear elliptic boundary value problems. (Russian. English summary) **2001i:35091**
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## 47J15 Abstract bifurcation theory [see also 58E07, 58E09]

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**Drábek, Pavel** (*with* Stavrakakis, Nikos M.) Bifurcation from the first eigenvalue of some nonlinear elliptic operators in Banach spaces. **2001i:47106**
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**Giacomoni, Jacques** (*with* Jeanjean, Louis) A variational approach to bifurcation into spectral gaps. (English summary) **2001c:47075**
**Gulgowski, Jacek** A global bifurcation theorem with applications to nonlinear Picard problems. **2001e:47097**
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**Keller, H. B.** Path following and bifurcations in scientific computing. **2001h:47105**
**Li, Dong Sheng** *see* **Li, Kai Tai, 2001g:47119**
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**Liu, Ze Yi** (*with* Rong, Xi Min; Du, Zhong Fu; Li, Hui Lai) Bifurcation of simple eigenvalues for nonlinear elliptic boundary problems. (Chinese. English and Chinese summaries) **2001m:47132**
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**Mortici, Cristinel** (*with* Sburlan, Silviu) Bifurcations for monotone type operators. (English summary) **2001d:47103**
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**Xi, Chuan Zhi** Applications of eigenvalues to asymptotic bifurcation points. (Chinese. English and Chinese summaries)
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## 47J35 Nonlinear evolution equations [see also 34G20, 35K90, 35L90, 35Qxx, 35R20, 37Kxx, 37Lxx, 58D25]

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**Alvarez, Felipe** On the minimizing property of a second order dissipative system in Hilbert spaces. (English summary) **2001e:34118**
**Chang, Yu-Hsien** (*with* Jau, Guo-Chin) Semilinear differential equations in Banach spaces. (English summary) **2001d:34094**
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**Hirano, Norimichi** (*with* Shioji, Naoki) Existence of periodic solutions under saddle point type conditions. (English summary) **2001m:34137**
**Jau, Guo-Chin** *see* **Chang, Yu-Hsien, 2001d:34094**
**Kaniadakis, G.** (*with* Scarfone, A. M.) Nonlinear gauge transformation for a class of Schrödinger equations containing complex nonlinearities. (English summary) **2001m:81095**
**Kannan, Rangachary** (*with* O'Regan, Donal) A note on the solution set of integral inclusions. (English summary) **2001b:45011**
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## 47J40 Equations with hysteresis operators

**Bade, W. G.** (*with* Curtis, P. C., Jr.; Sinclair, Allan M.) Raising bounded groups and splitting of radical extensions of commutative Banach algebras. (English summary) **2001m:47136**
**Brokate, M.** Rate independent hysteresis. (English summary) (*see* **2001b:00022**)
**Curtis, P. C., Jr.** *see* **Bade, W. G. et al., 2001m:47136**
**Kassay, G.** (*with* Kolumbán, Iosif) Variational inequalities given by semi-pseudomonotone mappings. **2001m:47137**
**Kolumbán, Iosif** *see* **Kassay, G., 2001m:47137**
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**Darwish, M. A.** Hysteresis in Urysohn-Volterra systems. (English summary) **2001d:45008**

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**Gilardi, Gianni** (*with* Krejčí, Pavel; Sprekels, Jürgen) Hysteresis in phase-field models with thermal memory. (English summary) **2001h:74059**
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**Sato, Naoki** *see* **Aiki, Toyohiko, 2001i:35291**
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**Alber, Ya. I.** Decomposition theorems in Banach spaces. (English summary) **2001b:46021**
**Appell, Jürgen M.** (*with* Conti, Giuseppe; Santucci, Paola) Some remarks on numerical ranges for nonlinear operators. (Italian. English summary) **2001g:47113**
**Baker, John A.** *see* **Zhang, Wei Nian, 2001j:39029**
**Balachandran, Krishnan** (*with* Sakthivel, R.) Controllability of integrodifferential systems in Banach spaces. (English summary) **2001m:93007**
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**Dhage, B. C.** (*with* Jahagirdar, P. G.) On non-linear integral equations in Banach algebras. (English summary)
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**Kummer, Bernd** Inverse functions of pseudo regular mappings and regularity conditions. (English summary) **2001f:90050**
**Łędzewicz-Kowalewska, Urszula** (*with* Schättler, Heinz M.) A high-order generalization of the Lyusternik theorem and its application to optimal control problems. **2001g:49024**
**Sakthivel, R.** *see* **Balachandran, Krishnan, 2001m:93007**
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**Slyusarchuk, V. E.** Essentially unstable solutions of difference equations in a Banach space. (Russian. Russian summary) **2001c:39028**
**Zhang, Wei Nian** (*with* Baker, John A.) Continuous solutions of a polynomial-like iterative equation with variable coefficients. (English summary) **2001j:39029**

# 47Lxx Linear spaces and algebras of operators [see also 46Lxx]

## 47L05 Linear spaces of operators [see also 46A32 and 46B28]

**Cho, Chong-Man** (*with* Roh, Woo Suk) A note on $M$-ideals in certain algebras of operators. (English summary) **2001g:47123**
**Isidro, José María**[1] The manifold of minimal partial isometries in the space $\mathcal{L}(H,K)$ of bounded linear operators. (English summary) **2001k:47098**
**Lu, Shi Jie** *see* **Tao, Chang Li, 2001j:47084** *and* **2001m:47138**
**Roh, Woo Suk** *see* **Cho, Chong-Man, 2001g:47123**
**Tao, Chang Li** (*with* Lu, Shi Jie) Reflexivity and approximate reflexivity for a graph. (Chinese. English and Chinese summaries) **2001m:47138**
— (*with* Lu, Shi Jie) Separating vectors, separating functionals and reflexivity. (Chinese. Chinese summary) **2001j:47084**
— A note on the hereditary $n$-reflexivity of operator spaces. (Chinese. English and Chinese summaries)

Items with secondary classifications in 47L05

**Dăneț, Nicolae** The Riesz decomposition property for the space of regular operators. (English summary) **2001e:47065**
**Emmanuele, G.** (*with* John, Kamil) The space of compact operators contains $c_0$ when a noncompact operator is suitably factorized. **2001b:46031**
**John, Kamil** (*with* Werner, Dirk) $M$-ideals of compact operators into $l_p$. (English summary) **2001b:46032**
— *see also* **Emmanuele, G., 2001b:46031**
**Liu, Guo Lin** (*with* Tao, Chang Li) The hereditary $n$-reflexivity of some operator spaces. (Chinese. English and Chinese summaries) **2001h:47117**
**Mayoral, Fernando** Compact sets of compact operators in absence of $l^1$. (English summary) **2001e:46026**
**Paneque, F.** (*with* Piñeiro, C.) A note on operator Banach spaces containing a complemented copy of $c_0$. (English summary) **2001k:46025**
**Piñeiro, C.** *see* **Paneque, F., 2001k:46025**
**Tao, Chang Li** *see* **Liu, Guo Lin, 2001h:47117**
**Werner, Dirk** *see* **John, Kamil, 2001b:46032**

## 47L07 Convex sets and cones of operators [see also 46A55]

Items with secondary classifications in 47L07

**Ando, Tsuyoshi** Problem of infimum in the positive cone. (English summary) **2001h:47026**
— Extreme points of a positive operator ball. (English summary) **2001e:47022**

## 47L10 Algebras of operators on Banach spaces and other topological linear spaces

**Bala, Pawan** On range cyclic operator algebras. II. (English summary) **2001m:47139**
**Goldstein, Dmitry** (*with* Krupnik, Naum Yakovlevich) Minimal number of idempotent generators for certain algebras. (English summary) **2001d:47111**
**Han, De Guang** *see* **Hou, Chengjun, 2001d:47112**
**Hou, Chengjun** (*with* Han, De Guang) Derivations and isomorphisms of certain reflexive operator algebras. (English summary) **2001d:47112**
**Krupnik, Naum Yakovlevich** *see* **Goldstein, Dmitry, 2001d:47111**
**Molnár, Lajos** On isomorphisms of standard operator algebras. (English summary) **2001g:47124**
**de Pagter, B.** (*with* Ricker, Werner J.) On the bicommutant theorem for $\sigma$-complete Boolean algebras of projections in Banach spaces. **2001e:47107**
**Qu, Wen Bo** The operator topological algebras $\Sigma(X,Y)$. (Chinese. English and Chinese summaries) **2001k:47099**
**Ricker, Werner J.** *see* **de Pagter, B., 2001e:47107**

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**Akbarov, S. S.** Stereotype algebras with reflection and the bicommutant theorem. (Russian) **2001g:46120**
**Gohberg, Israel** (*with* Goldberg, Seymour; Krupnik, Naum Yakovlevich) ★ Traces and determinants of linear operators. (English summary) **2001b:47035**
**Gök, Ömer** The dual Bade theorem in locally convex spaces and reflexivity of a closed unital subalgebra. (English summary) **2001e:46003**
— On the bicommutant theorem for strongly equicontinuous Boolean algebras of projections in locally convex spaces and resolutions of the identity of scalar-type spectral operators in Banach $C(K)$-modules. (English summary) **2001g:47057**
**Goldberg, Seymour** *see* **Gohberg, Israel et al., 2001b:47035**
**Harte, Robin** Block diagonalization in Banach algebras. (English summary) **2001k:47013**
**Krupnik, Naum Yakovlevich** *see* **Gohberg, Israel et al., 2001b:47035**
**Lomonosov, Victor** On the Bishop-Phelps theorem in complex spaces. (English summary) **2001i:46025**
**Okada, Susumu** (*with* Ricker, Werner J.) Integration maps and local equicontinuity of spectral measures. (English summary) **2001g:47059**
**Ricker, Werner J.** ★ Operator algebras generated by commuting projections: a vector measure approach. **2001b:47055**
— *see also* **Okada, Susumu, 2001g:47059**
**Tabaldyev, S. B.** The Sobolev algebra and indecomposable spatially projective operator algebras. **2001g:46110**

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## 47L15 Operator algebras with symbol structure

**Rabanovich, V. I.** (*with* Samoĭlenko, Yuriĭ) On representations of $\mathcal{F}_n$-algebras and invertibility symbols. (English summary) **2001d:47113**
**Samoĭlenko, Yuriĭ** *see* **Rabanovich, V. I., 2001d:47113**

Items with secondary classifications in 47L15

**Avsyankin, O. G.** (*with* Karapetyants, Nikolai K.) Multidimensional integral operators with homogeneous kernels of degree $-n$. (Russian) **2001b:47078**
**El hodaibi, M'hamed** Calcul symbolique dans l'algèbre $\mathcal{A}_\delta(\mathbf{R}^n)$. (English and French summaries) [Symbolic calculus in the algebra $\mathcal{A}_\delta(\mathbf{R}^n)$] **2001c:42010**
**Karapetyants, Nikolai K.** *see* **Avsyankin, O. G., 2001b:47078**

## 47L20 Operator ideals

**Abramsky, Samson** (*with* Blute, Richard; Panangaden, Prakash) Nuclear and trace ideals in tensored $*$-categories. (English summary) **2001h:47116**
**Blute, Richard** *see* **Abramsky, Samson et al., 2001h:47116**
**John, Kamil** $U$-ideals of factorable operators. (English summary) **2001j:47085**
**López Molina, J. A.** (*with* Sánchez Pérez, E. A.) On operator ideals related to $(p,\sigma)$-absolutely continuous operators. (English summary) **2001g:47125**
**Panangaden, Prakash** *see* **Abramsky, Samson et al., 2001h:47116**
**Sánchez Pérez, E. A.** *see* **López Molina, J. A., 2001g:47125**

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**Cobos, Fernando** Interpolation theory and measures related to operator ideals. (English summary) **2001f:46110**
— (*with* Martínez Martínez, Antón) Extreme estimates for interpolated operators by the real method. (English summary) **2001e:46128**
— (*with* Manzano, A.; Martínez Martínez, Antón; Matos, Pedro) On interpolation of strictly singular operators, strictly co-singular operators and related operator ideals. (English summary) **2001j:46113**
— (*with* Signes, Teresa) On a result of Peetre about interpolation of operator spaces. (English summary) **2001i:46114**
**Dykema, Kenneth J.** (*with* Weiss, Gary; Wodzicki, M.) Unitarily invariant trace extensions beyond the trace class. (English summary) **2001c:47025**
**Fulga, Andreea** Some operators ideals generated by generalized approximation numbers. (English summary) **2001d:47026**
**Geiss, Stefan** Absolutely $L_{\exp_\gamma}$-summing norms of diagonal operators in $l_r$ and limit orders of $L_{\exp}$-summing operators. (English summary) **2001k:47026**
**González, Manuel** (*with* Gutiérrez del Alamo, Joaquín M.) Surjective factorization of holomorphic mappings. (English summary) **2001i:46074**
**Gutiérrez del Alamo, Joaquín M.** *see* **González, Manuel, 2001i:46074**
**Jocić, Danko R.** The Cauchy-Schwarz norm inequality for elementary operators in Schatten ideals. (English summary) **2001i:47030**
**Kečkić, Dragoljub** Orthogonality of the range and the kernel of some elementary operators. (English summary) **2001g:47061**

**Kvaratskheliya, V. V.** (*with* Tarieladze, V. I.) The structure of summable sequences and $p$-summing operators. (English summary) **2001g:46019**
**Manzano, A.** *see* **Cobos, Fernando et al., 2001j:46113**
**Martínez Martínez, Antón** *see* **Cobos, Fernando et al., 2001e:46128** *and* **2001j:46113**
**Matos, Pedro** *see* **Cobos, Fernando et al., 2001j:46113**
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**Signes, Teresa** *see* **Cobos, Fernando, 2001i:46114**
**Tarieladze, V. I.** *see* **Kvaratskheliya, V. V., 2001g:46019**
**Weiss, Gary** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Wodzicki, M.** *see* **Dykema, Kenneth J. et al., 2001c:47025**
**Xia, Jingbo** Diagonalization and unitary equivalence modulo Schatten $p$-classes. (English summary) **2001j:47015**
**Xu, Quanhua** Interpolation of Schur multiplier spaces. (English summary) **2001j:46117**

## 47L25 Operator spaces (= matricially normed spaces) [see also 46L07]

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## 47L30 Abstract operator algebras on Hilbert spaces

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## 47L50 Dual spaces of operator algebras

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## 47L80 Algebras of specific types of operators (Toeplitz, integral, pseudodifferential, etc.)

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## 47L90 Applications of operator algebras to physics

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## 47N10 Applications in optimization, convex analysis, mathematical programming, economics

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**Ansari, Qamrul Hasan** (*with* Yao, Jen Chih) A fixed point theorem and its applications to a system of variational inequalities. (English summary) **2001c:47063**

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**Chowdhury, Mohammad S. R.** (*with* Tarafdar, Enayet; Yuan, George Xian-Zhi) Existence theorems of equilibria in $G$-convex spaces for $\mathcal{G}_C^L$-majorized correspondences. (English summary) **2001f:91021**

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**Monjardet, Bernard** (*with* Raderanirina, Vololonirina) The duality between the anti-exchange closure operators and the path independent choice operators on a finite set. (English summary) **2001j:91049**
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**Jakšić, Vojkan** (*with* Last, Yoram) Corrugated surfaces and a.c. spectrum. (English summary) **2001m:47143**
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**Pelloni, Beatrice** *see* **Fokas, A. S., 2001k:47104**
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**Aizenman, Michael** *see* **Schenker, Jeffrey H., 2001k:47008**
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**Atakhodzhaev, M. A.** On the Cauchy problem for a differential equation with unbounded operator coefficients. (English summary)
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**Banaś, Józef** (*with* Méndez-Rodríguez, Juan; Sadarangani, Kishin) On a class of Urysohn-Stieltjes quadratic integral equations and their applications. (English summary) **2001h:45007**
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## 47N30 Applications in probability theory and statistics

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**Last, Yoram** *see* **Jakšić, Vojkan, 2001g:47069**

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— *see also* **Damanik, David et al., 2001g:81060** *and* **2001g:81061**
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**Wadati, Miki** *see* **Fujii, Yasuhiro, 2001h:82014**
**Wennberg, B.** *see* **Alexandre, Radjesvarane et al., 2001c:82061**
**Yoo, Hyun Jae** *see* **Choi, S. D. et al., 2001g:82014**

## 47N60 Applications in biology and other sciences

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**Delgado Delgado, Manuel** (*with* Suárez Fernández, Antonio) Existence of solutions for elliptic systems with Holder continuous nonlinearities. (English summary) **2001c:35069**
**Killeen, Peter R.** (*with* Taylor, Thomas J.) A stochastic adding machine and complex dynamics. (English summary) **2001i:37013**
**Rudnicki, Ryszard** Strong and weak stability of some Markov operators. (English summary) **2001i:47059**
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**Taylor, Thomas J.** *see* **Killeen, Peter R., 2001i:37013**

## 47N70 Applications in systems theory, circuits, etc.

**Constantinescu, Tiberiu** (*with* Gheondea, Aurelian) Kolmogorov decompositions and the realization of time dependent systems. (English summary) **2001h:47123**
**Fujimoto, Kenji** (*with* Scherpen, Jacquelien M. A.) Eigenstructure of nonlinear Hankel operators. (English summary) **2001k:47107**
**Gheondea, Aurelian** *see* **Constantinescu, Tiberiu, 2001h:47123**
**Nguyễn Khoa So'n** (*with* Pham Huu Anh Ngoc) Stability of linear infinite-dimensional systems under affine and fractional perturbations. (English summary) **2001m:47147**
**Nudel'man, M. A.** Passive scattering systems with nonlinear feedback. (Russian. Russian summary) **2001f:47120**
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— (*with* Gohberg, Israel; Kaashoek, Marinus; Sakhnovich, A. L.) Direct and inverse scattering problem for canonical systems with a strictly pseudo-exponential potential. (English summary) **2001i:34139**
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— (*with* Nudel'man, M. A.) A criterion for the unitary similarity of minimal passive systems of scattering with a given transfer function. (Russian. English and Ukrainian summaries) **2001c:47015**
**Arova, Z. D.** On $J$-unitary nodes with strongly regular $J$-inner characteristic functions in the Hardy class $H_2^{n\times n}$. (English summary) **2001d:47018**
**Audounet, Jacques** (*with* Matignon, Denis; Montseny, Gérard) Semi-linear diffusive representations for nonlinear fractional differential systems. (English summary) **2001j:93074**
**Avdonin, Sergei** *see* **Seidman, Thomas I. et al., 2001k:42038**
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— (*with* Young, Nicholas J.) Problems on the realization of functions. (English summary) **2001a:47001**
**Balonin, N. A.** (*with* Mironovskiĭ, L. A.) The flip method for determining singular functions of the Hankel operator and the convolution operator. (Russian. Russian summary) **2001h:93018**
**Basu, Sankar** A constructive algorithm for 2-D spectral factorization with rational spectral factors. (English summary) **2001m:94010**
**Belyĭ, S. V.** (*with* Tsekanovskiĭ, Eduard) On classes of realizable operator-valued $R$-functions. (English summary) **2001g:47028**
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**Compta, Albert** (*with* Ferrer Llop, Josep) A geometric approach to the Carlson problem. (English summary) **2001k:15014**
**Constantinescu, Tiberiu** (*with* Sayed, Ali H.; Kailath, Thomas) Structured extensions of matrices. (English summary) **2001g:47030**
**Curtain, Ruth F.** *see* **Sasane, Amol J., 2001j:93025**
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**Feintuch, Avraham** (*with* Markus, Alexander S.) The structured norm of a Hilbert space operator with respect to a given algebra of operators. (English summary) **2001h:47013**
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**Guo, Bao Zhu** *see* **Luo, Zheng-Hua et al., 2001j:93001**
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**Hu, Qing-ying** *see* **Zhang, Hong Wei[2]**
**Hu, Yao Zhong** *see* **Defigueiredo, Rui J. P., (2001a:45003)**
**Hua, Xuejiao** (*with* Cao, Zhen Chao) Controllability of linear systems in non-reflexive Banch spaces. (English summary) [Controllability of linear systems in non-reflexive Banach spaces] **2001c:93015**
**Ionescu, Vlad** (*with* Ştefan, Radu) Chain-scattering solution to the $\gamma$-DF problem: a Popov function approach. (English summary) **2001e:93032**
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— (*with* Partington, Jonathan R.; Ünalmiş, Banu) On discrete-time linear systems with almost-periodic kernels. (English summary) **2001k:93070**
— (*with* Zwart, Hans) Exact controllability of $C_0$-groups with one-dimensional input operators. (English summary) **2001i:93013**
**Jung, Michael[2]** Admissibility of control operators for solution families to Volterra integral equations. (English summary) **2001c:93058**
**Kaashoek, Marinus** *see* **Arov, Damir Z. et al., 2001f:47013** *and* **Alpay, Daniel et al., 2001i:34139**
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**Klamka, Jerzy** Schauder's fixed-point theorem in nonlinear controllability problems. (English summary) **2001f:93014**
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**Komornik, Vilmos** (*with* Loreti, Paola) Observability of compactly perturbed systems. (English summary) **2001c:93022**
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— (*with* Triggiani, Roberto) ★ Control theory for partial differential equations: continuous and approximation theories. II. (English summary) **2001m:93003**
**Li, Xunjing** *see* **Wu, Hanzhong, 2001i:49058**
**Loreti, Paola** *see* **Komornik, Vilmos, 2001c:93022** *and* **Baiocchi, Claudio et al., 2001k:93008**
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**Markus, Alexander S.** *see* **Feintuch, Avraham, 2001h:47013**
**Matignon, Denis** *see* **Audounet, Jacques et al., 2001j:93074**
**Matvĭichuk, K. S.** Control of conditions for the technical stability of nonlinear parametrically excited processes. I. (Russian. English, Russian and Ukrainian summaries)
— Control of conditions for the technical stability of nonlinear parametrically excited processes. II. (Russian. English, Russian and Ukrainian summaries)
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**Montseny, Gérard** *see* **Audounet, Jacques et al., 2001j:93074**
**Morgül, Ömer** *see* **Luo, Zheng-Hua et al., 2001j:93001**
**Moubarak, Mohammed Rabie Abdallah** *see* **Shamardan, Ali B. et al.**
**Nudel'man, M. A.** *see* **Arov, Damir Z., 2001c:47015**
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**Partington, Jonathan R.** (*with* Weiss, George) Admissible observation operators for the right-shift semigroup. (English summary) **2001j:93024**
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**Sakhnovich, A. L.** *see* **Alpay, Daniel et al., 2001i:34139**
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**Sandberg, Irwin W.** Separation conditions, myopic maps, and criteria for uniform approximation of input-output maps. (English summary) **2001d:93089**
**Sasane, Amol J.** (*with* Curtain, Ruth F.) Optimal Hankel norm approximation for the Pritchard-Salamon class of infinite-dimensional systems. (English summary) **2001j:93025**
**Sayed, Ali H.** *see* **Constantinescu, Tiberiu et al., 2001g:47030**
**Seidman, Thomas I.** (*with* Avdonin, Sergei; Ivanov, Sergei A.) The "window problem" for series of complex exponentials. (English summary) **2001k:42038**
**Shamardan, Ali B.** (*with* Abdel-kader, O. M.; Moubarak, Mohammed Rabie Abdallah; Ahmad, H. F.) Observability for infinite-dimensional singular control systems. (English and Arabic summaries)
**Sholokhovich, F. A.** On the controllability and $\epsilon$-controllability of linear dynamical systems in infinite-dimensional spaces. (Russian. English and Russian summaries) **2001f:93015**
**Shpiz, G. B.** An eigenvector theorem in idempotent spaces. (Russian) **2001g:47131**
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**Sklyar, G. M.** (*with* Rezunenko, A. V.) Stability of a strongly stabilizing control for systems with a skew-adjoint operator in Hilbert space. (English summary) **2001m:93108**
**Staffans, Olof J.** Admissible factorizations of Hankel operators induce well-posed linear systems. (English summary) **2001f:93022**
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**Ştefan, Radu** *see* **Ionescu, Vlad, 2001e:93032**
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**Tsekanovskiĭ, Eduard** *see* **Belyĭ, S. V., 2001g:47028**
**Ünalmiş, Banu** *see* **Jacob, Birgit et al., 2001k:93070**
**Weiss, George** *see* **Partington, Jonathan R., 2001j:93024**
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**Wu, Hanzhong** (*with* Li, Xunjing) A linear quadratic problem with unbounded control in Hilbert spaces. (English summary) **2001i:49058**
**Xiang, Xiao Ling** *see* **Zhang, Zhu-hong, 2001i:49015**
**Yang, Mee Hyea** Factorization in Krein spaces. (English summary) **2001d:47051**
**Young, Nicholas J.** *see* **Ball, Joseph A., 2001a:47001**
**Zhang, Hong Wei[2]** (*with* Hu, Qing-ying) Semigroup theory for control system on non-sum-reflexive Banach spaces. (English and Chinese summaries)
**Zhang, Xu[1]** Exact controllability of semilinear evolution systems and its application. (English summary) **2001i:93017**
**Zhang, Zhu-hong** (*with* Xiang, Xiao Ling) Optimal control of a class of strongly nonlinear evolution systems. (English summary) **2001i:49015**
**Zwart, Hans** *see* **Jacob, Birgit et al., 2001f:93058; 2001i:93013** *and* **2001j:93023**

## 47N99 None of the above, but in this section

Items with secondary classifications in 47N99

**Berezanskiĭ, Yuriĭ Makarovich** Spectral theory of commutative Jacobi fields: direct and inverse problems. (English summary) **2001f:47049**
**Isac, George** The scalar asymptotic derivative and the fixed point theory on cones. (English summary) **2001h:47093**
**Kalauch, A.** (*with* Weber, M. R.) On a certain maximum principle for positively invertible matrices and operators in an ordered normed space. **2001g:47067**
**Marinov, Corneliu A.** Monotone operators approach of electrical circuit modeling. (English summary) (*see* **2001a:45003**)
**Weber, M. R.** *see* **Kalauch, A., 2001g:47067**

# 47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

## 47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

**Al'beverio, S.** (*with* Bayod, Jose Manuel; Perez-Garcia, Cristina; Cianci, Roberto; Khrennikov, Andrei) Non-Archimedean analogues of orthogonal and symmetric operators and $p$-adic quantization. (English summary) **2001i:47117**
**Bayod, Jose Manuel** *see* **Al'beverio, S. et al., 2001i:47117**
**Cianci, Roberto** *see* **Al'beverio, S. et al., 2001i:47117**
**Khrennikov, Andrei** *see* **Al'beverio, S. et al., 2001i:47117**
**Kiyosawa, Takemitsu** Tauberian operators in $p$-adic analysis. (English summary) **2001d:47121**
**Lyubinin, A. J.** Unitary isometries on $p$-adic Hilbert spaces. (English summary) (*see* **2001e:47006**)
**Perez-Garcia, Cristina** *see* **Al'beverio, S. et al., 2001i:47117**

Items with secondary classifications in 47S10

**Kochubeĭ, A. N.** Fractional differentiation operator over an infinite extension of a local field. **2001h:47050**
**Pons, Emilie** Modules différentiels non solubles. Rayons de convergence et indices. [Nonsolvable differential modules. Radii of convergence and indices] **2001i:12009**
**Zhu, Yue-ping** Multipliers on Herz type Hardy spaces over local fields. (English summary) **2001h:43003**

## 47S20 Nonstandard operator theory [see also 03H05]

Items with secondary classifications in 47S20

**Hinokuma, Takanori** Nonstandard proof of spectral theorem. **2001k:47019**
**Wolff, Manfred P. H.** Functional analysis. **2001i:46118**

## 47S30 Constructive operator theory [see also 03F60]

**Bridges, Douglas S.** (*with* Vîţă, Luminiţa) The weak-operator sequential continuity of left multiplication. (English summary) **2001m:47148**
**Vîţă, Luminiţa** *see* **Bridges, Douglas S., 2001m:47148**
**Ye, Feng** Toward a constructive theory of unbounded linear operators. (English summary) **2001g:47130**

Items with secondary classifications in 47S30

**Bridges, Douglas S.** (*with* Richman, Fred; Schuster, Peter M.) Adjoints, absolute values and polar decompositions. (English summary) **2001h:47001**
— (*with* Havea, Robin) A constructive analysis of a proof that the numerical range is convex. (English summary) **2001g:47008**
**Havea, Robin** *see* **Bridges, Douglas S., 2001g:47008**
**Richman, Fred** Adjoints and the image of the ball. (English summary) **2001g:47002**
— *see also* **Bridges, Douglas S. et al., 2001h:47001**
**Schuster, Peter M.** *see* **Bridges, Douglas S. et al., 2001h:47001**

## 47S40 Fuzzy operator theory [see also 03E72]

**Al-Said, Eisa A.** *see* **Noor, Muhammad Aslam**
**Fang, Jin Xuan** (*with* Li, Jun Hua) Fuzzy norm of a linear operator and space of fuzzy bounded linear operators. (English summary) **2001m:47149**
**Li, Jun Hua** *see* **Fang, Jin Xuan, 2001m:47149**
**Noor, Muhammad Aslam** (*with* Al-Said, Eisa A.) Resolvent equations and multivalued variational inequalities for fuzzy mappings. (English summary)
**Zhang, Jia Lu** Fuzzy linear mappings. (Chinese. English and Chinese summaries) **2001i:47118**

Items with secondary classifications in 47S40

**Al-Said, Eisa A.** Generalized quasi-variational inequalities for fuzzy mappings. (English summary) **2001e:47098**
**Chen, Tian Ping** *see* **Liang, Yuan**
**Jeong, Jae Ug** *see* **Park, Jong Yeoul, 2001e:47100** *and* **2001e:47101**
**Liang, Yuan** (*with* Chen, Tian Ping) A class of fuzzy fixed point theorems and their applications. (Chinese. English and Chinese summaries)
**Noor, Muhammad Aslam** (*with* Rassias, Themistocles M.) General strongly nonlinear variational inequalities for fuzzy operators. (English summary) (*see* **2001b:00012**)
— Variational inequalities for fuzzy mappings. III. (English summary) **2001d:90144**
**Park, Jong Yeoul** (*with* Jeong, Jae Ug) Iterative algorithm for finding approximate solutions to completely generalized strongly quasivariational inequalities for fuzzy mappings. (English summary) **2001e:47100**
— (*with* Jeong, Jae Ug) A perturbed algorithm of variational inclusions for fuzzy mappings. (English summary) **2001e:47101**
— (*with* Jeong, Jae Ug) On the generalized variational inequalities and quasivariational inequalities for fuzzy mappings. (English summary)
— (*with* Jeong, Jae Ug) Perturbed proximal point algorithms of generalized quasivariational inclusions for fuzzy mappings. (English summary)
**Pathak, Hemant Kumar** Probabilistic contractor couples and solutions of nonlinear equations for fuzzy mappings. (English summary) **2001h:47126**
**Rassias, Themistocles M.** *see* **Noor, Muhammad Aslam, (2001b:00012)**
**Wu, Jian Rong[2]** On fixed point theorems for fuzzy mappings. (English summary)

## 47S50 Operator theory in probabilistic metric linear spaces

**Fang, Jin Xuan** On probabilistic norm of a linear operators and space of operators. (Chinese. English and Chinese summaries) **2001h:47124**
**Jiang, Exi** Sequences of linear operators on M-PN spaces. (Chinese. English and Chinese summaries) **2001h:47125**
**Pathak, Hemant Kumar** Probabilistic contractor couples and solutions of nonlinear equations for fuzzy mappings. (English summary) **2001h:47126**
**Son, Gui An** *see* **Xu, Xiao Li, 2001j:47093**
**Xu, Xiao Li** (*with* Son, Gui An) A kind of set-valued operator equations in Menger PN-spaces. (Chinese. English and Chinese summaries) **2001j:47093**
**Zhu, Chuan Xi** Some theorems in the $X$-$M$-$PN$ space. (Chinese. English and Chinese summaries) **2001d:47122**

Items with secondary classifications in 47S50

**Fang, Jin Xuan** (*with* Song, Gui An) A note on probabilistic contractor couple and solutions for a system of nonlinear equations in N. A. Menger PN-spaces. (Chinese. English and Chinese summaries) **2001f:47104**

**Song, Gui An** *see* **Fang, Jin Xuan**, **2001f:47104** *and* **Zhang, Wei Rong**, **2001g:47109**

**Sun, Yu Lin** Fixed-point theorems in probabilistic $n$-metric space. (Chinese. English and Chinese summaries)

**Yang, Zhi Lin** Some fixed point theorems in probabilistic normed spaces. (Chinese. English and Chinese summaries) **2001h:47098**

**Zhang, Wei Rong** (*with* Song, Gui An) Topological degree theory in $C$-type PN-spaces and its applications. (Chinese. English and Chinese summaries) **2001g:47109**

## 47S99 None of the above, but in this section

**Shpiz, G. B.** An eigenvector theorem in idempotent spaces. (Russian) **2001g:47131**

Items with secondary classifications in 47S99

**Manuilov, V. M.** Diagonalizing operators in Hilbert modules over $C^*$-algebras. **2001k:46095**

**Troitskii, E. V.** Geometry and topology of operators on Hilbert $C^*$-modules. **2001k:46096**

# 49–XX Calculus of variations and optimal control; optimization [see also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]

## 49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

**Hu, Shouchuan** (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. II. (English summary) **2001g:49001**
**Papageorgiou, Nikolaos S.** *see* **Hu, Shouchuan, 2001g:49001**

Items with secondary classifications in 49–00

**Naidu, D. Subbaram** Featured review of books on optimal control.

## 49–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Borwein, Jonathan M.** (*with* Lewis, Adrian S.) ★ Convex analysis and nonlinear optimization. (English summary) **2001h:49001**
**Lewis, Adrian S.** *see* **Borwein, Jonathan M., 2001h:49001**
**Morgan, Frank** ★ Geometric measure theory. (English summary) **2001j:49001**
**Vinter, Richard** ★ Optimal control. (English summary) **2001c:49001**

Items with secondary classifications in 49–01

**Bhatti, M. Asghar** ★ Practical optimization methods. (English summary) **2001b:90001**

## 49–02 Research exposition (monographs, survey articles)

**Aniţa, Sebastian[2]** ★ Analysis and control of age-dependent population dynamics. (English summary) **2001m:49001**
**Aubin, Jean-Pierre** ★ Optima and equilibria. (English summary) **2001g:49002**
**Baturin, V. A.** (*with* Urbanovich, D. E.) ★ Приближенные методы оптимального управления, основанные на принципе расширения. (Russian. Russian summary) [Approximate methods for optimal control that are based on the extension principle] **2001e:49001**
**Buttazzo, Giuseppe** (*with* Giaquinta, Mariano; Hildebrandt, Stefan) ★ One-dimensional variational problems. (English summary) **2001a:49001**
**(Butyrin, A.)** *see* **Litvinov, V. G., 2001f:49002**
**Dem'yanov, V. F.** ★ Теорема о неподвижной точке в негладком анализе и ее применение. (Russian. Russian summary) [The fixed point theorem in nonsmooth analysis and its application] **2001e:49002**
**Giaquinta, Mariano** *see* **Buttazzo, Giuseppe et al., 2001a:49001**
**Gurman, V. I.** ★ Принцип расширения в задачах управления. (Russian. Russian summary) [The extension principle in control problems] **2001f:49001**
**Hildebrandt, Stefan** *see* **Buttazzo, Giuseppe et al., 2001a:49001**
**Kawohl, Bernhard** Some nonconvex shape optimization problems. (*see* **2001k:49001**)
**(Kolmanovskiĭ, Vladimir B.)** *see* **Piunovskiĭ, A. B., 2001i:49003**
**Konnov, Igor V.** ★ Combined relaxation methods for variational inequalities. **2001i:49001**
**(Litvinov, E. V.)** *see* **Litvinov, V. G., 2001f:49002**
**Litvinov, V. G.** ★ Optimization in elliptic problems with applications to mechanics of deformable bodies and fluid mechanics. (English summary) **2001f:49002**
**Luus, Rein** ★ Iterative dynamic programming. (English summary) **2001i:49002**
**Piunovskiĭ, A. B.** ★ Оптимальное управление случайными последовательностями в задачах с ограничениями. (Russian) [Optimal control of random sequences in problems with constraints] **2001i:49003**
**(Shiryaev, Albert N.)** *see* **Piunovskiĭ, A. B., 2001i:49003**
**Simons, Stephen** ★ Minimax and monotonicity. **2001h:49002**
**Tikhomirov, Vladimir M.** Extremum theory and extremal problems of classical analysis. (Russian) **2001j:49002**
**Urbanovich, D. E.** *see* **Baturin, V. A., 2001e:49001**
**(Vakhrameev, S. A.)** *see* **Zelikin, M. I., 2001a:49002**
**(Wilson, Stephen S.[3])** *see* **Aubin, Jean-Pierre, 2001g:49002**
**Zelikin, M. I.** ★ Control theory and optimization. I. (English summary) **2001a:49002**

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**Encyclopaedia of Mathematical Sciences** *see* **Zelikin, M. I., 2001a:49002**
**Lecture Notes in Economics and Mathematical Systems** *see* **Konnov, Igor V., 2001i:49001**
**Lecture Notes in Mathematics** *see* **Simons, Stephen, 2001h:49002**

Items with secondary classifications in 49–02

**Bendsøe, Martin P.** Topology design of structures, materials and mechanisms—status and perspectives. (*see* **2001b:93003**)
**Bonnans, J. Frédéric** (*with* Shapiro, Alexander) ★ Perturbation analysis of optimization problems. (English summary) **2001g:90003**
**Borwein, Jonathan M.** (*with* Lewis, Adrian S.) ★ Convex analysis and nonlinear optimization. (English summary) **2001h:49001**
**Capuzzo Dolcetta, Italo** Hamilton-Jacobi-Bellman equations and optimal control. **2001b:49042**
**Colonius, Fritz** (*with* Kliemann, Wolfgang) ★ The dynamics of control. **2001e:93001**
**Demidenko, N. D.** ★ Управляемые распределенные системы. (Russian. Russian summary) [Controlled distributed systems] **2001f:93002**
**Dem'yanov, V. F.** (*with* Rubinov, Aleksandr M.) An introduction to quasidifferential calculus. (English summary) **2001f:49032**
— Exhausters and convexificators—new tools in nonsmooth analysis. (English summary) **2001h:49023**
**(Grüne, Lars)** *see* **Colonius, Fritz, 2001e:93001**
**Hu, Shouchuan** (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. II. (English summary) **2001g:49001**
**Kliemann, Wolfgang** *see* **Colonius, Fritz, 2001e:93001**
**Lewis, Adrian S.** *see* **Borwein, Jonathan M., 2001h:49001**
**Li, Xunjing** Optimal control theory: from finite dimensions to infinite dimensions. (*see* **2001c:93005**)
**Moskalenko, Aleksandr Ivanovich** ★ Оптимальное управление моделями экономической динамики. (Russian. Russian summary) [Optimal control of models of economic dynamics] **2001m:91137**
**Motreanu, Dumitru** (*with* Pavel, Nicolae) ★ Tangency, flow invariance for differential equations, and optimization problems. (English summary) **2001k:34003**
**Papageorgiou, Nikolaos S.** *see* **Hu, Shouchuan, 2001g:49001**
**Pavel, Nicolae** *see* **Motreanu, Dumitru, 2001k:34003**
**Rubinov, Aleksandr M.** *see* **Dem'yanov, V. F., 2001f:49032**
**Shapiro, Alexander** *see* **Bonnans, J. Frédéric, 2001g:90003**
**(Shokin, Yu. I.)** *see* **Demidenko, N. D., 2001f:93002**
**Tartar, Luc** An introduction to the homogenization method in optimal design. (*see* **2001k:49001**)
**Tsurkov, Vladimir** ★ Hierarchical optimization and mathematical physics. (English summary) **2001a:90002**
**Vinter, Richard** ★ Optimal control. (English summary) **2001c:49001**

## 49–03 Historical (must also be assigned at least one classification number from Section 01)

**Bardaro, Carlo** The work of Calogero Vinti in approximation theory and its impact in calculus of variations. (English summary)
**Bilombo, Raoul** A presentation of relations among the main theorems for non-linear analysis. (English summary)
**Clarke, Francis H.** The calculus of variations, nonsmooth analysis and optimal control. **2001h:49003**
**(Fan, Ky)** *see* **Special Issue: Fan, Ky**
**Gilev, I. V.** On the history of automatic control theory, and problems of the stability of motion. (Russian. Russian summary) (*see* **2001d:00016**)
**Sargent, R. W. H.** Optimal control. (English summary) (*see* **2001g:65011**)

Items listed otherwise than by author

**Festschrift:**
**Fan, Ky** ★ Special issue for Professor Ky Fan.
**Special Issue:**
**Fan, Ky** ★ Special issue for Professor Ky Fan.

Items with secondary classifications in 49–03

**Agrachev, Andrei A.** (*with* Mishchenko, E. F.) Instead of an introduction. Works of R. V. Gamkrelidze. (Russian)
**Almgren, Frederick Justin, Jr.** ★ Selected works of Frederick J. Almgren, Jr. **2001f:01053**
— *see also* **White, Brian Cabell, 2001a:01065**
**De Giorgi, Ennio** Variational free-discontinuity problems. (Italian) (*see* **2001d:00034**)
**Gamkrelidze, Revaz Valerianovich** The mathematical works of L. S. Pontryagin. (Russian) **2001a:01051**
— The mathematical work of L. S. Pontryagin. **2001h:01024**
— *see also* **Agrachev, Andrei A.**
**Mishchenko, E. F.** *see* **Agrachev, Andrei A.**
**(Pontryagin, L. S.)** *see* **Gamkrelidze, Revaz Valerianovich, 2001a:01051** *and* **2001h:01024**
**(Taylor, Jean E.)** *see* **Almgren, Frederick Justin, Jr., 2001f:01053**
**Thiele, Rüdiger** Frühe Variationsrechnung und Funktionsbegriff. [Early calculus of variations and function concept] **2001m:01004**
**White, Brian Cabell** The mathematics of F. J. Almgren, Jr. (English summary) **2001a:01065**

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**Almgren, Frederick J., Jr.** *see* **Almgren, Frederick Justin, Jr., 2001f:01053**
**Almgren, Frederick Justin, Jr.** *see* **White, Brian Cabell, 2001a:01065**
**Biography:**
**Almgren, Frederick J., Jr.** *see* **Almgren, Frederick Justin, Jr., 2001f:01053**
**Collected Works:**
**Almgren, Frederick J., Jr.** *see* **Almgren, Frederick Justin, Jr., 2001f:01053**
**Selected works of Frederick J. Almgren, Jr.** *see* **Almgren, Frederick Justin, Jr., 2001f:01053**

## 49–04 Explicit machine computation and programs (not the theory of computation or programming)

**Chuprova, O. G.** (*with* Derenko, N. V.; Tarasenko, N. V.) A scientific-educational program package for solving optimal control problems with constraints. (Russian. Russian summary) (*see* **2001d:35002**)
**Derenko, N. V.** *see* **Chuprova, O. G. et al., (2001d:35002)**
**Tarasenko, N. V.** *see* **Chuprova, O. G. et al., (2001d:35002)**

## 49–06 Proceedings, conferences, collections, etc.

**(Abramov, A. P.)** *see* **Operations research (models, systems, solutions), 2001m:49002**
**(Aseev, S. M.)** *see* **Optimal control, 2001e:49003**
**(Aubin, Jean-Pierre)** *see* **Set-valued analysis in control theory, 2001c:49002**
**(Cellina, Arrigo)** *see* **Kawohl, Bernhard et al., 2001k:49001**
**(Dem'yanov, V. F.)** *see* **Dedicated to the memory of Professor P. D. Panagiotopoulos**
**(Frankowska, Halina)** *see* **Set-valued analysis in control theory, 2001c:49002**
**(Göpfert, Alfred)** *see* **In celebration of Prof. Dr. Alfred Göpfert 65th birthday**
**Kawohl, Bernhard** (*with* Pironneau, Olivier; Tartar, Luc; Zolésio, Jean-Paul) ★ Optimal shape design. **2001k:49001**
**(Krasnopolina, È. I.)** *see* **Optimal control, 2001e:49003**
**(Ornelas, A.)** *see* **Kawohl, Bernhard et al., 2001k:49001**

(Panagiotopoulos, Panagiotis D.) *see* **Dedicated to the memory of Professor P. D. Panagiotopoulos**
(Pardalos, Panos M.) *see* **Dedicated to the memory of Professor P. D. Panagiotopoulos**
Pironneau, Olivier *see* **Kawohl, Bernhard et al., 2001k:49001**
(Pontryagin, L. S.) *see* **Optimal control, 2001e:49003**
(Schulz, Volker) *see* **SQP-based direct discretization methods for practical optimal control problems, 2001c:49003**
(Stavroulakis, Georgios E.) *see* **Dedicated to the memory of Professor P. D. Panagiotopoulos**
Tartar, Luc *see* **Kawohl, Bernhard et al., 2001k:49001**
(Vakhrameev, S. A.) *see* **Optimal control, 2001e:49003**
Zolésio, Jean-Paul *see* **Kawohl, Bernhard et al., 2001k:49001**

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**Anniversary:**
**Birth of Pontryagin, Lev Semenovich** ★ Оптимальное управление. (Russian) [Optimal control] **2001e:49003**
**Conference:**
**Optimization—Methods and Applications** ★ German-Polish Conference on Optimization—Methods and Applications. **2001d:49001**
**Pontryagin, Lev Semenovich** ★ Оптимальное управление. (Russian) [Optimal control] **2001e:49003**
**Dedicated to the memory of Professor P. D. Panagiotopoulos** ★ Dedicated to the memory of Professor P. D. Panagiotopoulos.
**Festschrift:**
**Göpfert, Alfred** ★ In celebration of Prof. Dr. Alfred Göpfert 65th birthday.
**In celebration of Prof. Dr. Alfred Göpfert 65th birthday** ★ In celebration of Prof. Dr. Alfred Göpfert 65th birthday.
**Lecture Notes in Mathematics** *see* **Kawohl, Bernhard et al., 2001k:49001**
**Memorial Issue:**
**Panagiotopoulos, Panagiotis D.** ★ Dedicated to the memory of Professor P. D. Panagiotopoulos.
**Moscow** ★ Оптимальное управление. (Russian) [Optimal control] **2001e:49003**
**New computer technologies in control systems** ★ Новые компьютерные технологии в системах управления. (Russian) [New computer technologies in control systems] **2001g:49003**
**Operations research (models, systems, solutions)** ★ Исследование операций (модели, системы, решения). (Russian) [Operations research (models, systems, solutions)] **2001m:49002**
**Optimal control** ★ Оптимальное управление. (Russian) [Optimal control] **2001e:49003**
**Optimal shape design** *see* **Kawohl, Bernhard et al., 2001k:49001**
**Pereslavl'-Zalesskiĭ** ★ Новые компьютерные технологии в системах управления. (Russian) [New computer technologies in control systems] **2001g:49003**
**Set-valued analysis in control theory** ★ Set-valued analysis in control theory. **2001c:49002**
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**Set-valued analysis in control theory** ★ Set-valued analysis in control theory. **2001c:49002**
**SQP-based direct discretization methods for practical optimal control problems** ★ SQP-based direct discretization methods for practical optimal control problems. **2001c:49003**
**SQP-based direct discretization methods for practical optimal control problems** ★ SQP-based direct discretization methods for practical optimal control problems. **2001c:49003**
**Tróia** *see* **Kawohl, Bernhard et al., 2001k:49001**
**Żagań** ★ German-Polish Conference on Optimization—Methods and Applications. **2001d:49001**

Items with secondary classifications in 49–06

(Ahmed, Nasir U.) *see* **Optimization methods and applications, 2001j:90006**
(Bereznev, V. A.) *see* **Problems of modeling and analysis in decision making problems, 2001m:90006**
(Caccetta, Louis) *see* **Optimization methods and applications, 2001j:90006**
(Cagnol, John) *see* **Shape optimization and optimal design, 2001i:00040**
(Chen, Shu Ping) *see* **Control of distributed parameter and stochastic systems, 2001c:93005**
(Conrad, Francis) *see* **Control of systems governed by partial differential equations, 2001h:93003**
(Emel'yanov, Stanislav Vasil'evich) *see* **Nonlinear dynamics and control, 2001c:00027**
Fliess, Michel *see* **Sussmann, Héctor J. et al., 2001f:93003**
(Grossinho, Maria do Rosário) *see* **Nonlinear analysis and its applications to differential equations, 2001f:00027**
(Karmanov, V. G.) *see* **Problems of modeling and analysis in decision making problems, 2001m:90006**
(Korovin, S. K.) *see* **Nonlinear dynamics and control, 2001c:00027**
(Krbec, Miroslav) *see* **Nonlinear analysis, function spaces and applications, 2001c:00021**
(Kufner, Alois) *see* **Nonlinear analysis, function spaces and applications, 2001c:00021**
(Li, Xunjing) *see* **Control of distributed parameter and stochastic systems, 2001c:93005**
(Luenberger, David G.) *see* **Special Issue: Luenberger, David G., 2001d:00064**
(Malanin, V. V.) *see* **Problems in mechanics and control, 2001d:00016**
(Polis, Michael P.) *see* **Shape optimization and optimal design, 2001i:00040**
(Powell, M. J. D.) *see* **System modelling and optimization, 2001b:93003**
Puel, Jean-Pierre *see* **Sussmann, Héctor J. et al., 2001f:93003**
(Ramos, Miguel) *see* **Nonlinear analysis and its applications to differential equations, 2001f:00027**
(Rebelo, Carlota) *see* **Nonlinear analysis and its applications to differential equations, 2001f:00027**
(Sanchez, Luis) *see* **Nonlinear analysis and its applications to differential equations, 2001f:00027**
(Scholtes, S.) *see* **System modelling and optimization, 2001b:93003**
Sussmann, Héctor J. (*with* Fliess, Michel; Puel, Jean-Pierre) ★ Quelques aspects de la théorie du contrôle. (French) [Some aspects of control theory] **2001f:93003**
(Teo, Kok Lay) *see* **Optimization methods and applications, 2001j:90006**
(Tret'yakov, A. A.) *see* **Problems of modeling and analysis in decision making problems, 2001m:90006**
(Tucsnak, Marius) *see* **Control of systems governed by partial differential equations, 2001h:93003**
(Yang, Xiao Qi) *see* **Optimization methods and applications, 2001j:90006**
(Yong, Jiong Min) *see* **Control of distributed parameter and stochastic systems, 2001c:93005**
(Zhou, Xun Yu) *see* **Control of distributed parameter and stochastic systems, 2001c:93005**
(Zolésio, Jean-Paul) *see* **Shape optimization and optimal design, 2001i:00040**

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**Birthday:**
**Emel'yanov, Stanislav Vasil'evich** ★ Нелинейная динамика и управление. (Russian) [Nonlinear dynamics and control] **2001c:00027**
**Cambridge** ★ System modelling and optimization. **2001b:93003**
— ★ Shape optimization and optimal design. **2001i:00040**
**Conference:**
**Control of Distributed Parameter and Stochastic Systems** ★ Control of distributed parameter and stochastic systems. **2001c:93005**
**Optimization—Methods and Applications** ★ German-Polish Conference on Optimization—Methods and Applications. **2001i:90006**
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**Shape optimization and optimal design** ★ Shape optimization and optimal design. **2001i:00040**
**Some aspects of control theory** *see* **Sussmann, Héctor J. et al., 2001f:93003**
**Special Issue:**
**Luenberger, David G.** ★ Special Issue in honor of Professor David G. Luenberger. **2001d:00064**
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**System modelling and optimization** ★ System modelling and optimization. **2001b:93003**
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## 49Jxx Existence theories

### 49J05 Free problems in one independent variable

**Afanas'ev, A. P.** (*with* Ostapenko, A. V.) Maximizing the sum of superdiagonal matrix elements in local variational problems with a singular integrand. (English summary) **2001i:49004**
**Bagarello, Fabio** Nonstandard variational calculus with applications to classical mechanics. I. An existence criterion. (English summary) **2001c:49004**
— Nonstandard variational calculus with applications to classical mechanics. II. The inverse problem and more. (English summary) **2001c:49005**
**Blot, Joël** (*with* Cartigny, P.) Optimality in infinite-horizon variational problems under sign conditions. (English summary) **2001h:49004**

**Cartigny, P.** *see* **Blot, Joël, 2001h:49004**
**Crasta, Graziano** On the minimum problem for a class of noncoercive nonconvex functionals. (English summary) **2001b:49001**
**Giambò, Roberto** (*with* Giannoni, Fabio) The brachistochrone problem with frictional forces. (English summary) **2001g:49004**
**Giannoni, Fabio** *see* **Giambò, Roberto, 2001g:49004**
**Lyul'ko, N. A.** *see* **Zelenyak, T. I., 2001k:49002**
**Ostapenko, A. V.** *see* **Afanas'ev, A. P., 2001i:49004**
**Rugescu, R. D.** A first integral for second order extrema. (English and Romanian summaries)
**Zaslavski, Alexander J.** Existence and uniform boundedness of optimal solutions of variational problems. (English summary) **2001d:49002**
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**Giaquinta, Mariano** *see* **Buttazzo, Giuseppe et al., 2001a:49001**
**Hildebrandt, Stefan** *see* **Buttazzo, Giuseppe et al., 2001a:49001**

## 49J10 Free problems in two or more independent variables

**Ambrosio, Luigi** (*with* Fonseca, Irene; Marcellini, Paolo; Tartar, Luc) On a volume-constrained variational problem. (English summary) **2001d:49003**
**Athanasopoulos, I.** (*with* Caffarelli, Luis A.; Kenig, Carlos E.; Salsa, Sandro) An area-Dirichlet integral minimization problem. **2001k:49003**
**Aviles, Patricio** (*with* Giga, Yoshikazu) On lower semicontinuity of a defect energy obtained by a singular limit of the Ginzburg-Landau type energy for gradient fields. (English summary) **2001a:49003**
**Ball, John M.** (*with* Kirchheim, Bernd; Kristensen, Jan) Regularity of quasiconvex envelopes. (English summary) **2001j:49003**
**Benaouda, M. K.** (*with* Telega, J. J.) Two-dimensional examples of rank-one convex functions that are not quasiconvex. (English summary) **2001g:49005**
**Bildhauer, Michael** A uniqueness theorem for the dual problem associated to a variational problem with linear growth. (English and Russian summaries) **2001m:49003**
**Braides, Andrea** Free discontinuity problems and their non-local approximation.
**Caffarelli, Luis A.** *see* **Athanasopoulos, I. et al., 2001k:49003**
**Cardaliaguet, Pierre** (*with* Tahraoui, Rabah) Extended Hardy-Littlewood inequalities and applications to the calculus of variations. (English summary) **2001h:49005**
— (*with* Tahraoui, Rabah) Sur l'équivalence de la 1-rang convexité et de la polyconvexité des ensembles isotropiques de $\mathbf{R}^{2\times 2}$. (English and French summaries) [Equivalence of rank-one convexity and polyconvexity for isotropic sets in $\mathbf{R}^{2\times 2}$] **2001j:49004**
**Castaing, Charles** (*with* Monteiro Marques, Manuel D. P.) A multivalued version of Scorza-Dragoni theorem with an application to normal integrands. (English summary)
**Celada, P.** (*with* Perrotta, S.) Minimizing non-convex multiple integrals: a density result. (English summary) **2001e:49004**
**Crasta, Graziano** (*with* Malusa, Annalisa) Euler-Lagrange inclusions and existence of minimizers for a class of non-coercive variational problems. (English summary) **2001j:49005**
— Existence, uniqueness and qualitative properties of minima to radially symmetric non-coercive non-convex variational problems. (English summary) **2001h:49006**
— (*with* Malusa, Annalisa) Nonconvex minimization problems for functionals defined on vector valued functions. (English summary) **2001j:49006**
**Dolzmann, Georg** (*with* Kirchheim, Bernd; Kristensen, Jan) Conditions for equality of hulls in the calculus of variations. (English summary) **2001g:49006**
**Fonseca, Irene** *see* **Ambrosio, Luigi et al., 2001d:49003**
**Giga, Yoshikazu** *see* **Aviles, Patricio, 2001a:49003**
**Ignat, L.** (*with* Lefter, Catalin; Rădulescu, Vicenţiu D.) Minimization of the renormalized energy in the unit ball of $\mathbf{R}^2$. (English summary)
**Iqbal, Z.** A construction of laminates from rank-1 polygons. (English summary) **2001k:49004a**
— Corrigendum: "A construction of laminates from rank-1 polygons". **2001k:49004b**
**Kenig, Carlos E.** *see* **Athanasopoulos, I. et al., 2001k:49003**
**Kikuchi, Koji** Constructing gradient flows for quasiconvex functionals.
**Kirchheim, Bernd** *see* **Dolzmann, Georg et al., 2001g:49006** *and* **Ball, John M. et al., 2001j:49003**
**Kristensen, Jan** *see* **Dolzmann, Georg et al., 2001g:49006** *and* **Ball, John M. et al., 2001j:49003**
**Kružík, Martin** Bauer's maximum principle and hulls of sets. (English summary) **2001k:49005**
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**Mascolo, Elvira** (*with* Siepe, Francesco) ★ Functionals of the calculus of variations with non standard growth conditions. **2001k:49006**
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**Müller, Stefan**[1] Quasiconvexity is not invariant under transposition. (English summary) **2001d:49005**
**Orpel, Aleksandra** The existence of the critical points for the action functional without convexity assumptions. (English summary) **2001e:49006**
**Perrotta, S.** *see* **Celada, P., 2001e:49004**
**Rădulescu, Vicenţiu D.** *see* **Ignat, L. et al.**
**Ricceri, Biagio** Further considerations on a variational property of integral functionals. (English summary) **2001i:49005**
**Salsa, Sandro** *see* **Athanasopoulos, I. et al., 2001k:49003**
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**Sychev, Mil'hail A.** Characterization of homogeneous scalar variational problems solvable for all boundary data. (English summary) **2001e:49005**
**Tahraoui, Rabah** *see* **Cardaliaguet, Pierre, 2001h:49005** *and* **2001j:49004**
**Tartar, Luc** *see* **Ambrosio, Luigi et al., 2001d:49003**
**Telega, J. J.** *see* **Benaouda, M. K., 2001g:49005**
**Treu, Giulia** (*with* Vornicescu, Mihai) On the equivalence of two variational problems. (English summary) **2001h:49007**
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**Zagatti, Sandro** Minimization of functionals of the gradient by Baire's theorem. (English summary) **2001b:49002**
**Zhang, Ke Wei**[1] Rank-one connections at infinity and quasiconvex hulls. (English summary) **2001e:49006**

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**Ben Belgacem, Hafedh** Relaxation of singular functionals defined on Sobolev spaces. (English and French summaries) **2001e:49023**
**Benci, Vieri** (*with* Giannoni, Fabio; Piccione, Paolo) A variational problem for manifold valued functions. (English summary) **2001b:58025**
**Bertirotti, Silvia** (*with* Van der Putten, Roberto) Existence of minimizers and lower semicontinuity of integral functionals in the vectorial case. (English summary) **2001f:49028**
**Bethuel, Fabrice** Variational methods for Ginzburg-Landau equations. **2001h:58019**
— (*with* Brezis, Haïm; Orlandi, Giandomenico) Small energy solutions to the Ginzburg-Landau equation. (English and French summaries) **2001k:35263**
**Bouchitté, Guy** (*with* Dubs, C.; Seppecher, P.) Regular approximation of free-discontinuity problems. (English summary) **2001k:49033**
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**Buzano, Ernesto** (*with* Cermelli, Paolo) A singular variational problem in dislocation theory. (English summary) **2001j:74030**
**Cermelli, Paolo** *see* **Buzano, Ernesto, 2001j:74030**
**Chudinovich, Igor** (*with* Constanda, Christian) ★ Variational and potential methods in the theory of bending of plates with transverse shear deformation. (English summary) **2001h:74050**
**Cianchi, Andrea** Some results in the theory of Orlicz spaces and applications to variational problems. **2001i:46046**
— Local boundedness of minimizers of anisotropic functionals. (English summary) **2001b:49051**
**Coifman, Ronald R.** (*with* Sowa, Artur) Combining the calculus of variations and wavelets for image enhancement. (English summary) **2001h:65170**
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**Cox, Steven J.** (*with* McCarthy, C. Maeve) Correction to: "The shape of the tallest column" [SIAM J. Math. Anal. **29** (1998), no. 3, 547–554 (electronic); MR 99k:73090]. (English summary) **2001a:74085**
**Dacorogna, Bernard** (*with* Fonseca, Irene) Minima absolus pour des énergies ferro-magnétiques. (English and French summaries) [Absolute minimizers for some ferromagnetic energies] **2001i:82073**
**Da Lio, Francesca** On the Bellman equation for infinite horizon problems with unbounded cost functional. (English summary) **2001i:49050**
**Dancer, Edward Norman** (*with* Zhang, Zhitao) Fucik spectrum, sign-changing, and multiple solutions for semilinear elliptic boundary value problems with resonance at infinity. (English summary) **2001m:47135**
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**Ebobisse, François Bille** On lower semicontinuity of integral functionals in $LD(\Omega)$. (English summary) **2001j:49021**
**Eck, Christof** (*with* Jarušek, Jiří) Existence results for the semicoercive static contact problem with Coulomb friction. **2001d:74047**
**Esposito, Luca** (*with* Mingione, Giuseppe) Partial regularity for minimizers of convex integrals with $L\log L$-growth. (English summary) **2001f:49065**
**Faina, Loris** The nonparametric Weierstrass integral over a BV curve as a length functional. (English summary) **2001f:49081**
**Fan, Xian Ling** (*with* Zhao, Dun) The quasi-minimizer of integral functionals with $m(x)$ growth conditions. **2001e:49063**
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**Fu, Yong Qiang** (*with* Wu, Cong Xin) Semicontinuity problems in the calculus of variations. (Chinese. English and Chinese summaries) **2001j:49022**
**Fuchs, Martin**[2] (*with* Mingione, Giuseppe) Full $C^{1,\alpha}$-regularity for free and constrained local minimizers of elliptic variational integrals with nearly linear growth. (English summary) **2001g:49058**
**Giannoni, Fabio** *see* **Benci, Vieri et al., 2001b:58025**
**Gittel, Hans-Peter** A variational approach to transonic potential flow problems. (English summary) **2001i:76067**
**Jarušek, Jiří** *see* **Eck, Christof, 2001d:74047**
**Kawohl, Bernhard** Some nonconvex shape optimization problems. (*see* **2001k:49001**)
— Symmetry results for functions yielding best constants in Sobolev-type inequalities. (English summary) **2001c:35064**
**Kirchheim, Bernd** Deformations with finitely many gradients and stability of quasiconvex hulls. (English and French summaries) **2001m:49016**
**Le Dret, Hervé** (*with* Raoult, Annie) From three-dimensional elasticity to the nonlinear membrane model. **2001e:74019**
**McCarthy, C. Maeve** *see* **Cox, Steven J., 2001a:74085**
**McGough, Jeff S.** (*with* Schmitt, Klaus) Applications of variational identities to quasilinear elliptic differential equations. (English summary) **2001i:35061**
**Miclo, Laurent** Relations entre isopérimétrie et trou spectral pour les chaînes de Markov finies. (English and French summaries) [Relations between isoperimetry and spectral gap for finite Markov chains] **2001a:60082**
**Mingione, Giuseppe** *see* **Esposito, Luca, 2001f:49065** *and* **Fuchs, Martin**[2], **2001g:49058**
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**Nazarov, A. I.** The one-dimensional character of an extremum point of the Friedrichs inequality in spherical and plane layers. (English summary) **2001k:35065**
**Orlandi, Giandomenico** *see* **Bethuel, Fabrice et al., 2001k:35263**
**Pacard, Frank** (*with* Rivière, Tristan) On the set of minimizers of the Ginzburg-Landau functional in dimension 2. **2001i:58025**
**Paoli, Laetitia A.** An existence result for vibrations with unilateral constraints: case of a nonsmooth set of constraints. (English summary) **2001g:34012**
**Pedregal, Pablo** Optimization, relaxation and Young measures. (English summary) **2001b:49061**
— ★ Variational methods in nonlinear elasticity. (English summary) **2001g:74005**
**Perera, Kanishka** (*with* Schechter, Martin) The Fučík spectrum and critical groups. (English summary) **2001m:35116**
**Piccione, Paolo** *see* **Benci, Vieri et al., 2001b:58025**
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**Rigot, Séverine** Big pieces of $C^{1,\alpha}$-graphs for minimizers of the Mumford-Shah functional. (English summary) **2001f:49067**
— Uniform partial regularity of quasi minimizers for the perimeter. (English summary) **2001d:49061**
**Rivière, Tristan** *see* **Pacard, Frank, 2001i:58025**
**Schechter, Martin** *see* **Perera, Kanishka, 2001m:35116**
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**Serëgin, G. A.** Continuity for the strain velocity tensor in two-dimensional variational problems from the theory of the Bingham fluid. (English summary) **2001b:76006**
**Serfaty, Sylvia** Local minimizers for the Ginzburg-Landau energy near critical magnetic field. I. (English summary) **2001a:82077**
— Local minimizers for the Ginzburg-Landau energy near critical magnetic field. II. (English summary) **2001f:82089**
**Sowa, Artur** *see* **Colfman, Ronald R., 2001h:65170**
**Tilli, Paolo** On a constrained variational problem with an arbitrary number of free boundaries. (English summary) **2001f:35447**
**Uglanov, A. V.** Calculus of variations on Banach spaces. (Russian. Russian summary) **2001m:49026**
**Van der Putten, Roberto** *see* **Bertirotti, Silvia, 2001f:49028**
**Vlaclovsky, Jeff A.** Conformal geometry, contact geometry, and the calculus of variations. **2001b:53038**
**Warnecke, Gerald G.** ★ Analytische Methoden in der Theorie der Erhaltungsgleichungen. (German) [Analytical methods in the theory of conservation laws] **2001b:35207**
**Wu, Cong Xin** *see* **Fu, Yong Qiang, 2001j:49022**
**Zelenko, Igor** *see* **Agrachev, Andrei A., 2001k:53067**
**Zhang, Ke Wei[1]** On the quasiconvex exposed points. (English summary) **2001i:49033**
**Zhang, Shi Qing** Variational minimizing properties for $N$-body problems. (English summary) **2001a:70014**
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## 49J15 Optimal control problems involving ordinary differential equations

**Afanas'ev, A. P.** On cyclic solutions in dynamical systems generated by local variational problems with degenerations in the objective function. (Russian. Russian summary) (*see* **2001c:00027**)
— Cyclic solutions in dynamical systems generated by local variational problems with objective-function singularities. (English summary) **2001i:49006**
**Balder, Erik J.** (*with* Nguyen Dinh) Some extensions of Berliocchi-Lasry theorem and extremum principles for classes of mathematical programming problems. (English summary) **2001m:49004**
**Borisov, V. F.** On two-dimensional integral submanifolds of a class of Hamiltonian systems with a discontinuous right-hand side. (Russian. English and Russian summaries) **2001m:49005**
**Cabau, Patrick** (*with* Pelletier, Fernand) Localisation des courbes anormales et couples de tenseurs de Poisson en petite dimension. (French summary) [Localization of abnormal curves and pairs of Poisson tensors in small dimension] **2001k:49007**
**Chentsov, A. G.** Attraction sets and their representation as admissible sets of generalized problems. (Russian. English and Russian summaries) **2001e:49007**
**Cui, Wen Jin** *see* **Xie, Xiao Rong et al.**
**Danilin, A. R.** (*with* Il'in, A. M.) On the structure of the solution of a perturbed time-optimality problem. (Russian. English and Russian summaries) **2001i:49007**
**Danilova, O. A.** (*with* Matveev, A. S.) On the violation of the "traditional" criterion for the existence of an optimal control. (English summary)
**Effati, S.** (*with* Kamyad, A. V.; Kamyabi-Gol, R. A.) On infinite-horizon optimal control problems. (English summary) **2001a:49004**
**Florinskiĭ, V. V.** *see* **Korobov, V. Î. et al., 2001k:49008**
**Garcia, Alfredo** (*with* Smith, Robert L.) Solving nonstationary infinite horizon dynamic optimization problems. (English summary) **2001a:49005**
**Geng, Xiao Jun** (*with* Xi, Yu Geng) Suboptimality analysis of receding horizon control with terminal constraints. (Chinese. English and Chinese summaries)
**Han, Ying Duo** *see* **Xie, Xiao Rong et al.**
**Hejmo, Władysław** (*with* Majewska, Katarzyna) On non-unique time-optimal control of a planar discontinuous dynamic object. (English summary) **2001a:49006**
**Il'in, A. M.** *see* **Danilin, A. R., 2001i:49007**
**Ivashko, D. G.** On a terminal control problem for $C$-systems. (Russian. Russian summary) (*see* **2001f:93006**)
**Jeong, Jin Mun** *see* **Kwun, Young Chel, 2001a:49007**
**Kamyabi-Gol, R. A.** *see* **Effati, S. et al., 2001a:49004**
**Kamyad, A. V.** *see* **Effati, S. et al., 2001a:49004**
**Khailov, E. N.** Estimates of the number of switchings of optimal control in the time-optimal control problem for a certain class of bilinear systems. (*see* **2001e:47006**)
**Kiselëv, Yu. N.** Extremal property of the initial value of the adjoint variable in the minimization problem of the energy functional on trajectories of linear systems with constrained control. **2001g:49007**
**Korobov, V. Î.** (*with* Sklyar, G. M.; Florinskiĭ, V. V.) A polynomial of minimal degree for determining all switching moments in a time-optimal problem. (Russian. English, Russian and Ukrainian summaries) **2001k:49008**
**Kvitko, A. N.** On one problem of terminal control. (English summary)
**Kwun, Young Chel** (*with* Jeong, Jin Mun) Control problem for fuzzy differential equations. (English summary) **2001a:49007**
**López Lacasta, C.** (*with* Martínez, Eduardo) Generalized metric on optimal control systems. (English summary) **2001f:49003**
— (*with* Martínez, Eduardo) Sub-Finslerian metric associated to an optimal control system. (English summary) **2001i:49008**
**Majewska, Katarzyna** *see* **Hejmo, Władysław, 2001a:49006**
**Manita, L. A.** Behavior of extremals in a neighborhood of singular regimes, and nonsmooth Lyapunov functions in optimal control problems. (Russian. English and Russian summaries)
**Martínez, Eduardo** *see* **López Lacasta, C., 2001f:49003** *and* **2001i:49008**
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**Motta, Monica** (*with* Rampazzo, Franco) State-constrained control problems with neither coercivity nor $L^1$ bounds on the controls. (English summary) **2001d:49006**
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**Pelletier, Fernand** *see* **Cabau, Patrick, 2001k:49007**
**Propoĭ, A. I.** The equivalence principle in the control of motion. (Russian) **2001d:49007**
**Rampazzo, Franco** *see* **Motta, Monica, 2001d:49006**
**Ryu, Ji Hyun** *see* **Shin, Chang Eon, 2001a:49008** *and* **2001e:49008**
**Shevchenko, G. V.** A linear optimal control problem with a convex homogeneous functional. (Russian. English and Russian summaries) (*see* **2001g:49003**)
**Shin, Chang Eon** (*with* Ryu, Ji Hyun) Generalized solutions of impulsive control systems and reachable sets. (English summary) **2001a:49008**
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**Smith, Robert L.** *see* **Garcia, Alfredo, 2001a:49005**
**Tang, Yi Liang** *see* **Xie, Xiao Rong et al.**
**Xi, Yu Geng** *see* **Geng, Xiao Jun**
**Xie, Xiao Rong** (*with* Cui, Wen Jin; Tang, Yi Liang; Han, Ying Duo) A direct iterative algorithm to solve the extended Levinc-Athans equations. (Chinese. English and Chinese summaries)
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**Afanas'ev, A. P.** On local variational problems with functional constraints. (Russian. Russian summary) **2001f:49061**
**Aleksandrov, Vladimir Mikhaĭlovich** Sequential synthesis of time-optimal control. (Russian. Russian summary) **2001c:49053**
**Anan'evskiĭ, I. M.** A game-theoretic problem of the control of a material point of unknown mass. (Russian. Russian summary) **2001h:49053**
**Avvakumov, S. N.** (*with* Kiselëv, Yu. N.) Boundary value problem for ordinary differential equations with applications to optimal control. (English summary) (*see* **2001e:47006**)
**Belaya, N. L.** (*with* Petrov, Nikolaĭ Nikolaevich) Completeness of vector fields. (English summary)
**Cardaliaguet, Pierre** (*with* Tahraoui, Rabah) Extended Hardy-Littlewood inequalities and applications to the calculus of variations. (English summary) **2001h:49005**
**Chernous'ko, F. L.** *see* **Smyshlyaev, A. S., 2001b:49048**
**Dikusar, V. V.** Search methods for admissible solutions in optimal control problems. (Russian. Russian summary) **2001e:49052**
**Frankowska, Halina** (*with* Vinter, Richard) Existence of neighboring feasible trajectories: applications to dynamic programming for state-constrained optimal control problems. (English summary) **2001a:49010**
**Gràcia, Xavier** (*with* Marín-Solano, Jesús; Muñoz-Lecanda, Miguel-C.) Variational principles in mechanics: geometric aspects. (English summary) **2001i:37096**
**Grüne, Lars** (*with* Wirth, Fabian R.) On the rate of convergence of infinite horizon discounted optimal value functions. (English summary) **2001j:49045**
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**Gurman, V. I.** ★ Принцип расширения в задачах управления. (Russian. Russian summary) [The extension principle in control problems] **2001f:49001**
**Gyurkovics, É.** Receding horizon control via Bolza-type optimization. (English summary) **2001b:93059**
**Ichikawa, Akira** (*with* Katayama, Hitoshi) Remarks on the time-varying $H_\infty$ Riccati equations. (English summary) **2001f:93024**
**Ivey, Thomas A.** Minimal curves of constant torsion. (English summary) **2001j:58021**
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**Khailov, E. N.** On the number of switchings of optimal controls in the time-optimality problem for bilinear systems. (Russian) **2001f:49011**
**Kiselëv, Yu. N.** *see* **Avvakumov, S. N., (2001e:47006)**
**Koike, Shigeaki** $\varepsilon$-optimal controls for state constraint problems. (*see* **2001d:35004**)
**Kondrat'ev, G. V.** (*with* Kondrat'ev, Vyacheslav Vasil'evich) The property of the isolatedness of the Lagrangian manifold of the Bellman-Lyapunov function in the optimal stabilization problem. (Russian)
**Kondrat'ev, Vyacheslav Vasil'evich** *see* **Kondrat'ev, G. V.**
**Krasovskiĭ, N. N.** Problems of control and stabilization in dynamical systems. **2001g:93065**
**Kurzhanskiĭ, Aleksandr Borisovich** *see* **Varaiya, P., 2001j:93005**
**Le Breton, Alain** A note on the synthesis of nonquadratic optimal control in a one-dimensional linear system. (English summary) **2001i:49057**
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**Marín-Solano, Jesús** *see* **Gràcia, Xavier et al., 2001i:37096**
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**Muñoz-Lecanda, Miguel-C.** *see* **Gràcia, Xavier et al., 2001i:37096**
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**Ostapenko, E. V.** *see* **Perestyuk, N. A., 2001m:49054**
**Perestyuk, N. A.** (*with* Ostapenko, E. V.) A controllable impulse action in games with fixed termination time. (Russian. English and Ukrainian summaries) **2001m:49054**
**Petrov, Nikolaĭ Nikolaevich** *see* **Belaya, N. L.**
**Pliss, P. V.** On the asymptotic expansion at the infinity of the discontinuity curve of Lienard equation with control. (English summary)
**Sarychev, Andrei V.** (*with* Torres, Delfim F. Marado) Lipschitzian regularity conditions for the minimizing trajectories of optimal control problems. (English summary) **2001j:49062**
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**Tonkov, E. L.** *see* **Nikolaev, S. F., 2001f:49051**
**Torres, Delfim F. Marado** *see* **Sarychev, Andrei V., 2001j:49062**
**Varaĭya, P.** (*with* Kurzhanskiĭ, Aleksandr Borisovich) The attainability problem under constant perturbations. (Russian) **2001j:93005**
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**Zaslavski, Alexander J.** Existence of solutions of optimal control problems for a generic integrand without convexity assumptions. **2001h:49045**
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**Zelikin, M. I.** Irregularity of optimal control in regular extremal problems. (Russian. English and Russian summaries)
— To the theory of chattering control. (*see* **2001e:47006**)
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## 49J20 Optimal control problems involving partial differential equations

**Alekseev, G. V.** (*with* Tereshko, D. A.) Stationary problems of optimal control for equations of the hydrodynamics of a viscous heat-conducting fluid. (Russian. Russian summary) **2001h:49008**
**Alyev, Kh. G.** *see* **Mamedov, A. D.**
**Antman, Stuart S.** *see* **Seidman, Thomas I., 2001k:49009**
**Arada, Nadir** (*with* Bergounioux, Maïtine; Raymond, Jean-Pierre) Minimax controls for uncertain parabolic systems. (English summary) **2001f:49005**
**Barbu, Viorel** (*with* Favini, Angelo) Control of degenerate differential systems. (English summary) **2001h:49009**
**Bergounioux, Maïtine** *see* **Arada, Nadir et al., 2001f:49005**
**Bewley, Thomas R.** (*with* Témam, Roger; Ziane, Mohammed) Existence and uniqueness of optimal control to the Navier-Stokes equations. (English and French summaries) **2001j:49007**
**Bucur, Dorin** Uniform concentration-compactness for Sobolev spaces on variable domains. (English summary) **2001d:49008**
**Cañada, A.** (*with* Gámez Ruiz, Josè Luis; Montero, J. A.) Nonlinear optimal control problems for diffusive elliptic equations of logistic type. (*see* **2001f:00027**)
**Capatina, Anca** (*with* Stavre, Ruxandra) Algorithms and convergence results for an inverse problem in heat propagation. (English summary) **2001b:49003**
**Chen, Gen Shun** *see* **Leung, Anthony W., 2001c:49008**
**Favini, Angelo** *see* **Barbu, Viorel, 2001h:49009**
**Fursikov, A.** (*with* Gunzburger, Max D.; Hou, L. S.; Manservisi, Sandro) Optimal control problems for the Navier-Stokes equations. (English summary) **2001b:49004**
**Gámez Ruiz, Josè Luis** *see* **Cañada, A. et al., (2001f:00027)**
**Gunzburger, Max D.** *see* **Fursikov, A. et al., 2001b:49004**
**Hou, L. S.** *see* **Fursikov, A. et al., 2001b:49004**
**Idczak, Dariusz** (*with* Walczak, Stanisław) On the existence of a solution for some distributed optimal control hyperbolic system. (English summary) **2001b:49005**
**Imanuvilov, Oleg Yurievich** *see* **Lee, Hyung-Chun, 2001i:49009**
**Iskenderov, A. D.** (*with* Yagubov, G. Ya.) Optimal control of quantum mechanical potential. (Russian. English and Azerbaijani summaries)
**Kowalewski, Adam** (*with* Krakowiak, Anna) Time-optimal control of a parabolic system with time lags given in the integral form. (English summary) **2001f:49006**
**Krakowiak, Anna** *see* **Kowalewski, Adam, 2001f:49006**
**Laurence, Peter** (*with* Stredulinsky, Edward W.) Variational problems with topological constraints. (English summary) **2001a:49009**
**Lee, Hyung-Chun** (*with* Imanuvilov, Oleg Yurievich) Analysis of Neumann boundary optimal control problems for the stationary Boussinesq equations including solid media. (English summary) **2001i:49009**
**Lenhart, Suzanne** (*with* Protopopescu, Vladimir; Yong, Jiong Min) Identification of boundary shape and reflectivity in a wave equation by optimal control techniques. (English summary) **2001c:49007**
**Leung, Anthony W.** (*with* Chen, Gen Shun) Optimal control of multigroup neutron fission systems. (English summary) **2001c:49008**
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**Montero, J. A.** A uniqueness result for an optimal control problem on a diffusive elliptic Volterra-Lotka type equation. (English summary) **2001g:49008**
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**Nazarov, A. I.** On the "one-dimensionality" of the extremal in the Poincaré inequality in the square. (Russian. English and Russian summaries) **2001i:49010**
**Niftiev, A. A.** An optimal control problem for elliptic equations in a two-phase domain with an unknown boundary. (Russian)
**Nomirovskiĭ, D. A.** The control of pseudohyperbolic systems. (English summary) **2001j:49008**
— Optimization of parabolic systems with generalized coefficients. (Russian. English summary)
**Pavlenko, V. N.** Control of distributed systems of elliptic type with discontinuous nonlinearities. (Russian. English and Russian summaries) **2001f:49007**
**Protopopescu, Vladimir** *see* **Lenhart, Suzanne et al., 2001c:49007**
**Raitums, Uldis** On the strong closure of sets of feasible states and cogradients for elliptic equations. (English summary) **2001g:49009**
**Raymond, Jean-Pierre** *see* **Arada, Nadir et al., 2001f:49005**
**Robbiano, Luc** Théorème d'unicité et contrôle pour les équations hyperboliques. [Uniqueness theorem and control for hyperbolic equations] (*see* **2001b:35003**)
**Ryu, Sang-Uk** (*with* Yagi, Atsushi) Optimal control of Keller-Segel equations. **2001m:49006**
**Sadygov, M. A.** On the existence of a generalized solution of an optimal control problem. (Russian. English and Azerbaijani summaries)
**Seidman, Thomas I.** (*with* Antman, Stuart S.) Optimal control of a nonlinearly viscoelastic rod. (English summary) **2001k:49009**
**Stavre, Ruxandra** *see* **Capatina, Anca, 2001b:49003**
**Stredulinsky, Edward W.** *see* **Laurence, Peter, 2001a:49009**
**Témam, Roger** *see* **Bewley, Thomas R. et al., 2001j:49007**
**Tereshko, D. A.** *see* **Alekseev, G. V., 2001h:49008**
**Tolstonogov, A. A.** An existence theorem for an optimal control in the Goursat-Darboux problem without the convexity assumption. (Russian. Russian summary) **2001j:49009**
**Vasil'eva, E. V.** On a problem of the classification of control sets for a parabolic equation. (Russian) **2001f:49008**
**Vedantham, Ram** Optimal control of the viscous Burgers equation using an equivalent index method. (English summary) **2001k:49010**
**Walczak, Stanisław** *see* **Idczak, Dariusz, 2001b:49005**
**Xiang, Guang Hui** A boundary control problem for the Caginalp phase field model. (Chinese. English and Chinese summaries) **2001b:49006**
**Yagi, Atsushi** *see* **Ryu, Sang-Uk, 2001m:49006**
**Yagubov, G. Ya.** *see* **Iskenderov, A. D.**
**Yagubov, M. A.** On sliding regimes in a system with distributed parameters. (Russian. English and Azerbaijani summaries)
**Yong, Jiong Min** *see* **Lenhart, Suzanne et al., 2001c:49007**
**Ziane, Mohammed** *see* **Bewley, Thomas R. et al., 2001j:49007**

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**Arada, Nadir** (*with* Raymond, Jean-Pierre) Minimax control of parabolic systems with state constraints. (English summary) **2001b:49034**
— Relaxation of optimal control problems in $L^p$-spaces. (English summary) **2001j:49019**
**Aubert, Gilles** (*with* Tahraoui, Rabah) Young measures, relaxation of functionals and existence results without weak lower semicontinuity. (English summary) **2001b:49016**
**Bergounioux, Maïtine** (*with* Tröltzsch, Fredi) A linear parabolic boundary control problem with mixed control-state constraint. (English summary) **2001h:49031**
**Bittner, Leonhard** Optimal control for dynamic versions of the Leontief and other matrix models. (English summary) **2001m:49055**
**Borzi, Alfio** (*with* Kunisch, Karl) The numerical solution of the steady state solid fuel ignition model and its optimal control. (English summary) **2001d:49053**
**Braides, Andrea** (*with* Fonseca, Irene; Leoni, Giovanni) $\mathcal{A}$-quasiconvexity: relaxation and homogenization. (English summary) **2001k:49034**
**(Butyrin, A.)** *see* **Litvinov, V. G., 2001f:49002**
**Cañada, A.** (*with* Magal, P.; Montero, J. A.) Optimal control of harvesting in a nonlinear elliptic system arising from population dynamics. **2001m:49056**
**Chen, Qihong** Optimal control of semilinear elliptic variational bilateral problem. (English summary) **2001b:49031**
**Dal Maso, Gianni** (*with* Mora, Maria Giovanna; Morini, Massimiliano) Local calibrations for minimizers of the Mumford-Shah functional with rectilinear discontinuity sets. (English summary) **2001c:49072**
**De Arcangelis, Riccardo** (*with* Trombetti, Cristina) On the relaxation of some classes of Dirichlet minimum problems. **2001d:49021**
**Dębińska-Nagórska, Anna** (*with* Just, Andrzej; Stempień, Zdzisław) Contrôle optimal des systèmes gouvernés par une équation hyperbolique non linéaire. Approximation. (English and French summaries) [Optimal control of systems governed by a nonlinear hyperbolic equation. Approximation] **2001b:49045**
**Dzhumshudov, Dzh. S.** *see* **Agaev, F. M., 2001i:74067**
**Farag, Mahmoud H.** *see* **Farag, S. H.**
**Farag, S. H.** (*with* Farag, Mahmoud H.) On an optimal control problem for a quasilinear parabolic equation. (English summary)
**Fonseca, Irene** *see* **Braides, Andrea et al., 2001k:49034**
**Gadzhieva, R. O.** An optimal control problem for a plate vibration equation. (Russian. English and Azerbaijani summaries)
**Gunzburger, Max D.** (*with* Imanuvilov, Oleg Yurievich) Optimal control of stationary, low Mach number, highly nonisothermal, viscous flows. (English and French summaries) **2001i:76084**
**Imanuvilov, Oleg Yurievich** *see* **Lee, Hyung-Chun, 2001a:49023** *and* **Gunzburger, Max D., 2001i:76084**
**Just, Andrzej** *see* **Dębińska-Nagórska, Anna et al., 2001b:49045**
**Kassay, G.** (*with* Kolumbán, Iosif) Variational inequalities given by semi-pseudomonotone mappings. **2001m:47137**
**Kim, Hongchul** (*with* Lee, Youngil) On bi-pointwise control of a wave equation and algorithm. (English summary) **2001g:93017**

**Kinderlehrer, David** (*with* Mason, Darren E.) Incoherence at heterogeneous interfaces. (English summary) **2001a:74009**
**Kocan, Maciej** (*with* Soravia, Pierpaolo) Differential games and nonlinear $\mathscr{H}_\infty$ control in infinite dimensions. (English summary) **2001k:93043**
**Kolumbán, Iosif** *see* **Kassay, G., 2001m:47137**
**(Komornik, Vilmos)** *see* **Recent advances in control of PDEs, 2001c:93008**
**Kourogenis, Nikolaos C.** (*with* Papageorgiou, Nikolaos S.) Optimization and relaxation of nonlinear elliptic control systems. (English summary) **2001j:49025**
**Kunisch, Karl** *see* **Borzi, Alfio, 2001d:49053**
**Lee, Hyung-Chun** (*with* Imanuvilov, Oleg Yurievich) Analysis of optimal control problems for the 2-D stationary Boussinesq equations. (English summary) **2001a:49023**
**Lee, Youngil** *see* **Kim, Hongchul, 2001g:93017**
**Lenhart, Suzanne** (*with* Liang, Min; Protopopescu, Vladimir) Identification problem for a wave equation via optimal control. (English summary) **2001f:65108**
**Leoni, Giovanni** *see* **Braides, Andrea et al., 2001k:49034**
**Li, Xunjing** *see* **Wu, Hanzhong, 2001i:49058**
**Liang, Min** *see* **Lenhart, Suzanne et al., 2001f:65108**
**Lions, Jacques-Louis** Least regret control, virtual control and decomposition methods. (English summary) **2001g:93028**
**(Litvinov, E. V.)** *see* **Litvinov, V. G., 2001f:49002**
**Litvinov, V. G.** ★ Optimization in elliptic problems with applications to mechanics of deformable bodies and fluid mechanics. (English summary) **2001f:49002**
**Lopes, Orlando Francisco** Nonlocal variational problems arising in long wave propagation. (English summary) **2001k:35064**
**Magal, P.** *see* **Cañada, A. et al., 2001m:49056**
**Maksimov, Vyacheslav I.** (*with* Pandol'fi, L.) Reconstruction of controls in nonlinear distributed systems. (Russian. Russian summary) **2001b:49049**
**Martínez Varela, A. M.** (*with* Rodríguez, Carmen; Vázquez-Méndez, M. E.) Theoretical and numerical analysis of an optimal control problem related to wastewater treatment. (English summary) **2001a:49040**
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**Mäurer, Helmut**[2] (*with* Mittelmann, Hans D.) Optimization techniques for solving elliptic control problems with control and state constraints. I. Boundary control. (English summary) **2001e:93041**
**Migórski, S.** (*with* Ochal, Anna) Optimal control of parabolic hemivariational inequalities. (English summary) **2001k:49027**
**Mittelmann, Hans D.** *see* **Mäurer, Helmut**[2], **2001c:93041**
**Montero, J. A.** *see* **Cañada, A. et al., 2001m:49056**
**Mora, Maria Giovanna** *see* **Dal Maso, Gianni et al., 2001c:49072**
**Morini, Massimiliano** *see* **Dal Maso, Gianni et al., 2001c:49072**
**Muñoz, Julio** On some necessary conditions of optimality for a nonlocal variational principle. (English summary) **2001c:49038**
**Ochal, Anna** *see* **Migórski, S., 2001k:49027**
**Pandol'fi, L.** *see* **Maksimov, Vyacheslav I., 2001b:49049**
**Papageorgiou, Nikolaos S.** *see* **Kourogenis, Nikolaos C., 2001j:49025**
**Perera, Kanishka** (*with* Schechter, Martin) A generalization of the Amann-Zehnder theorem to nonresonance problems with jumping nonlinearities. (English summary) **2001k:35099**
**Protopopescu, Vladimir** *see* **Lenhart, Suzanne et al., 2001f:65108**
**Pukal'skiĭ, I. D.** The Green function for a parabolic boundary value problem, and an optimization problem. (Ukrainian. English and Ukrainian summaries) **2001i:35028**
**Raitums, Uldis** On maximal extensions of some extremal problems. (English and Latvian summaries) **2001e:49026**
**Raymond, Jean-Pierre** *see* **Arada, Nadir, 2001b:49034**
**Rodríguez, Carmen** *see* **Martínez Varela, A. M. et al., 2001a:49040**
**Roubíček, Tomáš** Direct method for parabolic problems. (English summary) **2001e:34126**
**Schechter, Martin** *see* **Perera, Kanishka, 2001k:35099**
**(Sokolowski, Jan)** *see* **Recent advances in control of PDEs, 2001c:93008**
**Soravia, Pierpaolo** *see* **Kocan, Maciej, 2001k:93043**
**Stempień, Zdzisław** *see* **Dębińska-Nagórska, Anna et al., 2001b:49045**
**Tabraoui, Rabah** *see* **Aubert, Gilles, 2001b:49016**
**Tröltzsch, Fredi** *see* **Bergounioux, Maïtine, 2001h:49031**
**Trombetti, Cristina** *see* **De Arcangelis, Riccardo, 2001d:49021**
**Vázquez-Méndez, M. E.** *see* **Martínez Varela, A. M. et al., 2001a:49040**
**Volkwein, S.** Application of the augmented Lagrangian-SQP method to optimal control problems for the stationary Burgers equation. (English summary) **2001a:49031**
**Wu, Hanzhong** (*with* Li, Xunjing) A linear quadratic problem with unbounded control in Hilbert spaces. (English summary) **2001i:49058**

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## 49J22 Optimal control problems involving integral equations

**Belbas, S. A.** Optimal control of Volterra equations with special constraints on the control. (English summary) (*see* **2001a:45003**)

## 49J24 Optimal control problems involving differential inclusions [see also 34A60]

**Aubin, Jean-Pierre** Boundary-value problems for systems of first-order partial differential inclusions. **2001d:49009**
**Cârjă, Ovidiu** (*with* Monteiro Marques, Manuel D. P.) Viability for nonautonomous semilinear differential equations. (English summary) **2001i:49011**
**Carl, S.** Extremal solutions for quasilinear elliptic inclusions in all of $\mathbf{R}^N$ with state-dependent subdifferentials. (English summary) **2001b:49007**
**Frankowska, Halina** (*with* Vinter, Richard) Existence of neighboring feasible trajectories: applications to dynamic programming for state-constrained optimal control problems. (English summary) **2001a:49010**
**Israilov, I. I.** (*with* Kirin, N. E.) Control of the components of differential inclusions. (Russian. English and Uzbek summaries)
**Kirin, N. E.** *see* **Israilov, I. I.**
**Mamedov, Musa A.** *see* **Pehlivan, Serpil, 2001b:49008**
**Maruyama, Toru** A variational problem governed by a differential inclusion in a Banach space. (*see* **2001h:91005**)
**Monteiro Marques, Manuel D. P.** *see* **Cârjă, Ovidiu, 2001i:49011**
**Motta, Monica** (*with* Sartori, C.) Discontinuous solutions to unbounded differential inclusions under state constraints. Applications to optimal control problems. (English summary) **2001d:49010**
**Pehlivan, Serpil** (*with* Mamedov, Musa A.) Statistical cluster points and turnpike. (English summary) **2001b:49008**
**Plaskacz, Sławomir** (*with* Quincampoix, Marc) Discontinuous Mayer control problem under state-constraints. (English summary) **2001i:49012**
**Quincampoix, Marc** *see* **Plaskacz, Sławomir, 2001i:49012**
**Rzeżuchowski, Tadeusz** Continuous parametrization of attainable sets by solutions of differential inclusions. (English summary) **2001g:49010**
**Sartori, C.** *see* **Motta, Monica, 2001d:49010**
**Tôn, Bùi An** Optimal control for $n$-person stochastic inclusions. II. (English summary) **2001h:49010**
**Vinter, Richard** *see* **Frankowska, Halina, 2001a:49010**
**Zhu, Qiji J.** Hamiltonian necessary conditions for a multiobjective optimal control problem with endpoint constraints. (English summary) **2001h:49011**

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**Bader, Ralf** On the semilinear multi-valued flow under constraints and the periodic problem. (English summary) **2001j:34079**
**Benabdellah, Houcine** Existence of solutions to the nonconvex sweeping process. (English summary) **2001h:34027**
**Benchohra, Mouffak** (*with* Ntouyas, S. K.) Controllability on infinite time horizon for functional differential and integro-differential inclusions in Banach spaces with nonlocal conditions. (English summary) **2001k:93010**
**Ben-El-Mechaiekh, Hichem** On the solvability of nonlinear inclusions in infinite dimensions. (English summary) **2001b:47109**
**Blagodat·skikh, V. I.** (*with* Ndii, P.) On the convexity of a family of solutions of a differential inclusion with delay. (Russian)
**Brykalov, S. A.** Solvability of differential inclusions in a fixed set of functions. (Russian)
**Cardaliaguet, Pierre** (*with* Quincampoix, Marc; Saint-Pierre, Patrick) Numerical schemes for discontinuous value functions of optimal control. (English summary) **2001g:49048**
**Cho, Yeol Je** *see* **Zhang, Shi Sheng et al., 2001c:47076**
**Colombo, Giovanni** (*with* Goncharov, Vladimir V.) The sweeping processes without convexity. (English summary) **2001i:34014**
**Frankowska, Halina** (*with* Rampazzo, Franco) Filippov's and Filippov-Ważewski's theorems on closed domains. (English summary) **2001f:34026**
**Gavioli, Andrea** On the solution set of the nonconvex sweeping process. (English summary) **2001h:34029**
— (*with* Malaguti, Luisa) Viable solutions of differential inclusions with memory in Banach spaces. (English summary) **2001k:34145**
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**Guseinov, Kh. G.** (*with* Ushakov, Vladimir N.) On the construction of differential inclusions with prescribed properties. (Russian. Russian summary) **2001j:34018**
**Jeong, Doo Hoan** *see* **Jeong, Jin Mun, 2001d:34099**
**Jeong, Jin Mun** (*with* Jeong, Doo Hoan) Regularity for nonlinear variational evolution inequalities in Hilbert spaces. (English summary) **2001d:34099**
**Jung, Il Hyo** *see* **Zhang, Shi Sheng et al., 2001c:47076**
**Lee, Byung Soo** *see* **Zhang, Shi Sheng et al., 2001c:47076**
**Malaguti, Luisa** *see* **Gavioli, Andrea, 2001k:34145**
**Maruyama, Toru** A generalization of the weak convergence theorem in Sobolev spaces with application to differential inclusions in a Banach space. (English summary)
**Mavlonov, N. M.** (*with* Otakulov, S.) On necessary conditions for optimality in a time-optimality problem for controlled differential inclusions. (Russian. English and Uzbek summaries) **2001j:49043**
**Motta, Monica** (*with* Rampazzo, Franco) Multivalued dynamics on a closed domain with absorbing boundary. Applications to optimal control problems with integral constraints. **2001h:34032**
**Ndii, P.** *see* **Blagodat·skikh, V. I.**
**Ntouyas, S. K.** *see* **Benchohra, Mouffak, 2001k:93010**
**Obukhovskiĭ, V. V.** (*with* Rubbioni, Paola) On a controllability problem for systems governed by semilinear functional differential inclusions in Banach spaces. (English summary) **2001i:93016**
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**Plotnikov, A. V.** *see* **Plotnikov, V. A. et al., 2001k:34022**
**Plotnikov, V. A.** (*with* Plotnikov, A. V.; Vityuk, A. N.) ★ Дифференциальные уравнения с многозначной правой частью. (Russian. Russian and Ukrainian summaries) [Differential equations with a multivalued right-hand side] **2001k:34022**
**Quincampoix, Marc** *see* **Cardaliaguet, Pierre et al., 2001g:49048**
**Rampazzo, Franco** *see* **Frankowska, Halina, 2001f:34026** *and* **Motta, Monica, 2001h:34032**
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**Saint-Pierre, Patrick** *see* **Cardaliaguet, Pierre et al., 2001g:49048**
**Shkondin, A. I.** Parametric representation of the integral funnel of a differential inclusion. (Russian. Russian summary) **2001b:93004**
**Tolstonogov, A. A.** $L_p$-continuous selectors of fixed points of multivalued mappings with decomposable values. I. Existence theorems. (Russian. Russian summary) **2001i:47082**
— $L_p$-continuous selectors of fixed points of multivalued mappings with decomposable values. II. Relaxation theorems. (Russian. Russian summary) **2001i:47083**
— $L_p$-continuous selectors of fixed points of multivalued mappings with decomposable values. III. Applications. (Russian. Russian summary) **2001i:47084**

**Ushakov, Vladimir N.** *see* **Guseĭnov, Kh. G., 2001j:34018**
**Vityuk, A. N.** *see* **Plotnikov, V. A. et al., 2001k:34022**
**Yakovleva, A. P.** The viability problem on functional-differential inclusions. (Russian. English and Ukrainian summaries)
**Zhang, Shi Sheng** (*with* Cho, Yeol Je; Lee, Byung Soo; Jung, Il Hyo) Generalized set-valued variational inclusions in Banach spaces. (English summary) **2001c:47076**

## 49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

**Gelashvili, K.** *see* **Tadumadze, T. A.**
**Rosenblueth, Javier F.** A representation of properly relaxed controls with two delays. (English summary) **2001e:49009**
**Tadumadze, T. A.** (*with* Gelashvili, K.) An existence theorem for a class of optimal problems with delayed argument.
**Xiang, Xiao Ling** Optimal control of a class of distributed parameter delay systems. (English summary) **2001d:49011**

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**Jeong, Jin Mun** *see* **Kang, Yong Han et al., 2001j:49065**
**Kang, Yong Han** (*with* Jeong, Jin Mun; Park, Jong Yeoul) Max-min controllability of delay-differential games in Hilbert spaces. (English summary) **2001j:49065**
**Kharatishvili, G. L.** (*with* Tadumadze, T. A.) A nonlinear optimal control problem with variable delay, nonfixed initial moment, and piecewise-continuous prehistory. (Russian) **2001k:49055**
**Kowalewski, Adam** (*with* Krakowiak, Anna) Time-optimal control of a parabolic system with time lags given in the integral form. (English summary) **2001f:49006**
**Krakowiak, Anna** *see* **Kowalewski, Adam, 2001f:49006**
**Park, Jong Yeoul** *see* **Kang, Yong Han et al., 2001j:49065**
**Rosenblueth, Javier F.** Two crucial examples related to properness of weakly relaxed delayed controls. (English summary) **2001h:49022**
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**Tadumadze, T. A.** *see* **Kharatishvili, G. L., 2001k:49055**
**Vettori, Paolo** (*with* Zampieri, Sandro) Controllability of systems described by convolutional or delay-differential equations. (English summary) **2001h:93015**
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## 49J27 Problems in abstract spaces [see also 90C48, 93C25]

**Bătineţu-Giurgiu, Maria** Semigroup theory and control theory polyvibrating systems. (English summary)
**Butkovskiĭ, A. G.** Control in metric spaces. (Russian. Russian summary) **2001i:49013**
**Camarinha, M.** *see* **Silva Leite, F. et al., 2001e:49010**
**Chentsov, A. G.** On the representation of attraction sets that arise under sequential weakening of constraints. (Russian) **2001b:49009**
**Cobzaş, Ştefan** Existence results for some optimization problems in Banach spaces. (English summary) (*see* **2001k:00021a**)
**Crouch, P.** *see* **Silva Leite, F. et al., 2001e:49010**
**Fattorini, H. O.** Some remarks on the time optimal control problem in infinite dimension. **2001c:49009**
**Giner, E.** On Pareto minima of vector-valued integral functionals. (English summary) **2001b:49010**
**Gobbino, Massimo** Minimizing movements and evolution problems in Euclidean spaces. (English summary) **2001b:49011**
**Le, Vy Khoi** Some existence results for noncoercive nonconvex minimization problems with fast or slow perturbing terms. **2001f:49009**
**Plotnikov, A. V.** Averaging of equations of a controlled motion with a multivalued performance index. (Russian. English and Ukrainian summaries) **2001m:49007**
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## 49J50 Fréchet and Gateaux differentiability [see also 46G05, 58C20]

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# 49Kxx Necessary conditions and sufficient conditions for optimality

## 49K05 Free problems in one independent variable

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**Aseev, S. M.** On the theory of necessary conditions for optimality for problems with phase constraints. (Russian) **2001m:49027**
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# 49Lxx Hamilton-Jacobi theories, including dynamic programming

## 49L20 Dynamic programming method

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## 49Mxx Methods of successive approximations [see also 90Cxx, 65Kxx]

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**Banks, H. T.** (*with* del Rosario, Ricardo C. H.) Convergence of approximations in feedback control of structures. (English summary) **2001m:93065**
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## 49M27 Decomposition methods

**Hua, Heping** Numerical solution of optimal control problems. (English summary)
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— (*with* Rathmann, Wigand) On modeling, analysis and simulation of optimal control problems for dynamic networks of Euler-Bernoulli and Rayleigh-beams. (English summary) **2001k:49072**
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**Akulenko, L. D.** (*with* Nesterov, S. V.) Effective numerical-analytic solution of variational problems in mechanics. (Russian) **2001h:49049**
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**Kvitko, A. N.** On one problem of terminal control. (English summary)
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**Xu, Xiaochun** (*with* Agrawal, Sunil K.) Finite-time optimal control of polynomial systems using successive suboptimal approximations. (English summary) **2001d:49057**
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**Zhang, Ju Liang** (*with* Zhang, Xiang Sun) A smoothing approximation for the nonsmooth exact penalty function of optimization with inequality constraints. (Chinese. English and Chinese summaries)
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**Zhu, Jian Dong** *see* **Ma, Shu Ping**

## 49M37 Methods of nonlinear programming type [see also 90C30, 65Kxx]

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**Cai, Dawei** *see* **Miyajima, Keiichi et al., 2001a:49030**

**Christianson, Bruce** Cheap Newton steps for optimal control problems: automatic differentiation and Pantoja's algorithm. (English summary) **2001c:49049**
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**Durazzi, Carla** (*with* Galligani, Emanuele) Solution of discrete optimal control problems via mathematical programming. (English and Italian summaries) (*see* **2001i:65003**)
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**Givoli, Dan** (*with* Patlashenko, Igor) Solution of static optimal control problems in nonlinear elasticity via quadratic programming. (English summary)
**Ito, Kazufumi** (*with* Kunisch, Karl) Newton's method for a class of weakly singular optimal control problems. (English summary) **2001g:49051**
**Kauffmann, Andreas** (*with* Kunisch, Karl) Optimal control of the solid fuel ignition model. (English summary) **2001k:49073**
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# 49Nxx Miscellaneous topics

## 49N05 Linear optimal control problems [see also 93C05]

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**Frueh, James A.** (*with* Phan, Minh Q.) Linear quadratic optimal learning control (LQL). (English summary) (*see* **2001c:93006**)
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## 49N15 Duality theory

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**Kim, Do Sang** (*with* Kim, Ai Lian) Efficiency and duality for nondifferentiable multiobjective variational problems with invexity. (English summary) **2001a:90054**
**Konnov, Igor V.** (*with* Schaible, Siegfried) Duality for equilibrium problems under generalized monotonicity. (English summary) **2001d:90119**
**Mazurov, P. A.** On the construction of dual variational principles of the theory of the filtration of an incompressible fluid in some deformable complex media. (Russian. Russian summary) **2001m:76101**
**Mishra, Shashi K.** (*with* Rueda, Norma G.) Higher-order generalized invexity and duality in mathematical programming. (English summary) **2001c:90099**
**Oettli, Werner** (*with* Yamasaki, Maretsugu) Duality theorems on an infinite network. (English summary) **2001b:90132**
**Omiecińska, Gabriela** Dual sufficient optimality condition for control problem with partial differential equations. **2001f:49047**
**Penot, Jean-Paul** What is quasiconvex analysis? (English summary) **2001a:49024**
**Rapcsák, Tamás** Global Lagrange multiplier rule and smooth exact penalty functions for equality constraints. (English summary) **2001f:90066**
**Repin, S. I.** A posteriori estimates for the accuracy of variational methods for problems with nonconvex functionals. (Russian. Russian summary) **2001f:49039**
— A posteriori error estimates for approximate solutions to variational problems with strongly convex functionals. (English summary) **2001i:49053**
**Rueda, Norma G.** *see* **Mishra, Shashi K., 2001c:90099**
**Schaible, Siegfried** *see* **Konnov, Igor V., 2001d:90119**
**Shataev, O. V.** Minimization of relative entropy in the problem of finding a martingale measure. (Russian) **2001j:90119**
**Simons, Stephen** *see* **Fitzpatrick, S. P., 2001b:49025**
**Singer, Ivan** Duality in quasi-convex supremization and reverse convex infimization via abstract convex analysis, and applications to approximation. (English summary) **2001h:90118**
— Dual representations of hulls for functions satisfying $f(0) = \inf f(X \setminus \{0\})$. (English summary) **2001h:90119**
**Sprekels, Jürgen** (*with* Tiba, Dan) A duality-type method for the design of beams. (English summary) **2001a:74081**
**Tiba, Dan** *see* **Sprekels, Jürgen, 2001a:74081**
**Yamasaki, Maretsugu** *see* **Oettli, Werner, 2001b:90132**

## 49N20 Periodic optimization

Items with secondary classifications in 49N20

**Afanas'ev, A. P.** On cyclic solutions in dynamical systems generated by local variational problems with degenerations in the objective function. (Russian. Russian summary) (*see* **2001c:00027**)
**Colaneri, Patrizio** Continuous-time periodic systems in $H_2$ and $H_\infty$. I. Theoretical aspects. (English summary) **2001c:93029**
— Continuous-time periodic systems in $H_2$ and $H_\infty$. II. State feedback problems. (English summary) **2001g:93029**
**Gómez, Guillermo I.** *see* **Goodwin, Graham C., 2001a:93039**
**Goodwin, Graham C.** (*with* Gómez, Guillermo I.) Frequency domain design trade-offs for linear periodic feedback systems. (English summary) **2001a:93039**
**Grammel, Götz** Periodic near optimal control. (English summary) **2001e:49045**

## 49N25 Impulsive optimal control problems

Items with secondary classifications in 49N25

**Bielecki, Tomasz R.** (*with* Pliska, Stanley R.) Risk sensitive asset management with transaction costs. (English summary) **2001m:91071**
**Pliska, Stanley R.** *see* **Bielecki, Tomasz R., 2001m:91071**

## 49N35 Optimal feedback synthesis [see also 93B52]

**Aleksandrov, Vladimir Mikhaĭlovich** Sequential synthesis of time-optimal control. (Russian. Russian summary) **2001c:49053**
**Anan'evskiĭ, I. M.** A game-theoretic problem of the control of a material point of unknown mass. (Russian. Russian summary) **2001h:49053**
**Ashchepkov, L. T.** (*with* Shaparenko, N. N.) Optimal synthesis and predictive stabilization of a linear system. (Russian. Russian summary) **2001k:49077**
**Balashevich, N. V.** (*with* Gabasov, R. F.; Kirillova, F. M.) Optimal positional mobile control of linear dynamical plants. (Russian. Russian summary) **2001c:49054**
— (*with* Gabasov, R. F.; Kirillova, F. M.) Guaranteed estimation of uncertain systems by means of prediction. (Russian. Russian summary) **2001d:49058**
— *see also* **Gabasov, R. F. et al., 2001m:49046**
**Bouyekhf, R.** *see* **Hennequin, S., 2001c:49056**
**Bukov, V. N.** (*with* Sizykh, V. N.) Approximate synthesis of an optimal control in a degenerate problem of the analytic construction of controllers. (Russian. Russian summary) **2001h:49054**
**Chernous'ko, F. L.** *see* **Smyshlyaev, A. S., 2001b:49048**
**Doyen, Luc** Guaranteed output feedback control for uncertain systems under control and state constraints. (English summary) **2001f:49064**
**Fedunov, B. E.** Synthesis of a time-optimal control of an oscillatory unit. (Russian. Russian summary) **2001c:49055**
**Gabasov, R. F.** (*with* Kirillova, F. M.; Balashevich, N. V.) On the synthesis problem for optimal control systems. (English summary) **2001m:49046**
— *see also* **Balashevich, N. V. et al., 2001c:49054** *and* **2001d:49058**
**Górniewicz, Lech** (*with* Nistri, Paolo) Feedback stability of closed sets for nonlinear control systems. (English summary) **2001g:49053**
**Hennequin, S.** (*with* Bouyekhf, R.) Suboptimal control and stability of nonlinear discrete-time systems. (English summary) **2001c:49056**
**Kabanov, S. A.** Simultaneous synthesis of an optimal control as a hierarchical differential game. (Russian)
**Kinëv, A. N.** Construction of a synthesis of constrained suboptimal control of an oscillatory system. (Russian. Russian summary)
**Kirillova, F. M.** *see* **Balashevich, N. V. et al., 2001c:49054; 2001d:49058** *and* **Gabasov, R. F. et al., 2001m:49046**
**Kruzhanskiĭ, A. B.** (*with* Mel'nikov, N. B.) On the problem of the synthesis of controls: the Pontryagin alternative integral and the Hamilton-Jacobi equation. (Russian. Russian summary) **2001m:49047**
**Kudin, V. F.** Analytic construction of digital relay controllers based on an analogue of the Hamilton-Jacobi-Bellman equation. (Russian. Russian summary) **2001d:49059**
**Kurina, G. A.** Control in the form of feedback for a linear-quadratic optimal control problem in the case of a degenerate Legendre condition. (Russian. Russian summary) **2001e:49061**
**Larin, Vladimir B.** Optimization of periodic systems with a singular weighted matrix that determines the quadratic form of the control actions. (Russian. English and Ukrainian summaries) **2001c:49057**
**Mel'nikov, N. B.** *see* **Kruzhanskiĭ, A. B., 2001m:49047**
**Myburgh, C.** *see* **Wong, Kar Hung et al., 2001e:49062**
**Nistri, Paolo** *see* **Górniewicz, Lech, 2001g:49053**
**Nobakhtian, S.** (*with* Stern, Ronald Jay) Universal near-optimal feedbacks. (English summary) **2001j:49058**
**Omari, L.** *see* **Wong, Kar Hung et al., 2001e:49062**
**Paraev, Yu. I.** (*with* Perepelkin, E. A.) Locally optimal control of systems with variable structure. (Russian. Russian summary) **2001c:49058**
**Perepelkin, E. A.** *see* **Paraev, Yu. I., 2001c:49058**
**Peter, G.** (*with* Wong, Kar Hung) Computation of sub-optimal feedback control for time-delayed optimal control problems. (English summary) **2001m:49048**
— *see also* **Wong, Kar Hung, (2001j:90006)**
**Piccoli, Benedetto** (*with* Sussmann, Héctor J.) Regular synthesis and sufficiency conditions for optimality. (English summary) **2001g:49054**
**Prager, W.** Numerical computation of the optimal feedback law for nonlinear infinite time horizon control problems. (English summary) **2001m:49049**
**Rachok, V. M.** *see* **Zabello, L. E., 2001m:49050**
**Shaparenko, N. N.** *see* **Ashchepkov, L. T., 2001k:49077**
**Shashikhin, V. N.** Optimization of nonlinear systems based on the interval linearization method. (Russian. Russian summary) **2001a:49033**
**Sizykh, V. N.** An iterative-relaxation method for the approximately optimal synthesis of controllers. (Russian) **2001j:49059**
— *see also* **Bukov, V. N., 2001h:49054**
**Smyshlyaev, A. S.** (*with* Chernous'ko, F. L.) An algorithm for the control of a linear system under complex constraints. (Russian. Russian summary) **2001b:49048**
**Soong, T. T.** *see* **Zhu, W. Q. et al., 2001k:49078**
**Stern, Ronald Jay** *see* **Nobakhtian, S., 2001j:49058**
**Sussmann, Héctor J.** *see* **Piccoli, Benedetto, 2001g:49054**
**Trigub, M. V.** On the control of deterministic dynamical systems. (Russian. English, Russian and Ukrainian summaries) **2001g:49055**
**Wong, Kar Hung** (*with* Myburgh, C.; Omari, L.) A gradient flow approach for computing jump linear quadratic optimal feedback gains. (English summary) **2001e:49062**

— (*with* Peter, G.) Computation of feedback control for infinite time optimal control problems. (English summary) (*see* **2001j:90006**)
— *see also* **Peter, G., 2001m:49048**
**Ying, Z. G.** *see* **Zhu, W. Q. et al., 2001k:49078**
**Zabello, L. E.** (*with* Rachok, V. M.) Synthesis of optimal impulse controls for linear systems with distributed delay. (Russian. Russian summary) **2001m:49050**
**Zhu, W. Q.** (*with* Ying, Z. G.; Soong, T. T.) An optimal nonlinear feedback control strategy for randomly excited structural systems. (English summary) **2001k:49078**

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**Cannarsa, Piermarco** (*with* Frankowska, Halina; Sinestrari, Carlo) Optimality conditions and synthesis for the minimum time problem. (English summary) **2001j:49036**
**Cannon, Mark** *see* **Kouvaritakis, Basil et al., 2001a:93089**
**Chen, Yang Zhou** Synthesis of optimal controls in a linear quadratic nonstationary differential game. (English summary)
**Chow, Joe H.** *see* **Wang, Shaopeng, 2001d:93042**
**Clarke, Francis H.** (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Proximal techniques of feedback construction. (English summary) **2001b:93035**
**Doyle, John C.** *see* **Primbs, James A. et al., 2001h:93078**
**Dubovik, S. A.** Synthesis of linear, singularly perturbed systems. (English summary) **2001m:93050**
**Florinskiĭ, V. V.** *see* **Korobov, V. Ĭ. et al., 2001k:49008**
**Fong, Ngo Tai** (*with* Zhou, Xun Yu) Optimal feedback controls in deterministic two-machine flowshops with finite buffers. (English summary) **2001d:49045**
**Frankowska, Halina** *see* **Cannarsa, Piermarco et al., 2001j:49036**
**Goncharova, M. N.** Synthesis of linear time optimality with phase constraints. (Russian. English and Russian summaries) **2001f:49042**
**Kapustyan, E. A.** (*with* Nakonechnyĭ, A. G.) Synthesis of an optimal bounded control for a parabolic boundary value problem with rapidly oscillating coefficients. (Russian. English, Russian and Ukrainian summaries) **2001a:93047**
**Kim, Arkadiĭ** (*with* Lozhnikov, A. B.) A linear-quadratic problem for systems with delay in the state. Exact solutions of Riccati equations. (Russian. Russian summary) **2001k:49056**
**Korobov, V. Ĭ.** (*with* Sklyar, G. M.; Florinskiĭ, V. V.) A polynomial of minimal degree for determining all switching moments in a time-optimal problem. (Russian. English, Russian and Ukrainian summaries) **2001k:49008**
**Kostin, G. V.** *see* **Akulenko, L. D., 2001j:49035**
**Kouvaritakis, Basil** (*with* Cannon, Mark; Rossiter, J. Anthony) Stability, feasibility, optimality and the degrees of freedom in constrained predictive control. (English summary) **2001a:93089**
**Kuehn, Jeffrey L.** (*with* Stalford, Harold L.) Stability of a Lyapunov controller for a semi-active structural control system with nonlinear actuator dynamics. (English summary) **2001i:93079**
**Kunkel, Peter** (*with* Mehrmann, Volker; Rath, Werner) Analysis and numerical solution of control problems in descriptor form. (English summary) **2001m:49043**
**Le Breton, Alain** A note on the synthesis of nonquadratic optimal control in a one-dimensional linear system. (English summary) **2001i:49057**
**Ledyaev, Yu. S.** *see* **Clarke, Francis H. et al., 2001b:93035**
**Lee, E. Bruce** *see* **You, K. H., 2001g:49029**
**Lozhnikov, A. B.** *see* **Kim, Arkadiĭ, 2001k:49056**
**Makhova, A. V.** *see* **Vakhrushev, V. A. et al., 2001b:93030**
**Mehrmann, Volker** *see* **Kunkel, Peter et al., 2001m:49043**
**Nakonechnyĭ, A. G.** *see* **Kapustyan, E. A., 2001a:93047**
**Nevistić, Vesna** *see* **Primbs, James A. et al., 2001h:93078**
**Primbs, James A.** (*with* Nevistić, Vesna; Doyle, John C.) A receding horizon generalization of pointwise min-norm controllers. (English summary) **2001h:93078**
**Rath, Werner** *see* **Kunkel, Peter et al., 2001m:49043**
**Rossiter, J. Anthony** *see* **Kouvaritakis, Basil et al., 2001a:93089**
**She, Yan** (*with* Zhang, Si Ying) Output regulation for a class of nonlinear control systems with time delay. (Chinese. English and Chinese summaries)
**Sinestrari, Carlo** *see* **Cannarsa, Piermarco et al., 2001j:49036**
**Sklyar, G. M.** *see* **Korobov, V. Ĭ. et al., 2001k:49008**
**Sotirov, L. N.** An algorithm for synthesis of discrete time-optimal adaptive controllers.
**Stalford, Harold L.** *see* **Kuehn, Jeffrey L., 2001i:93079**
**Stern, Ronald Jay** *see* **Clarke, Francis H. et al., 2001b:93035**
**Ushakov, Vladimir N.** *see* **Vakhrushev, V. A. et al., 2001b:93030**
**Vakhrushev, V. A.** (*with* Makhova, A. V.; Ushakov, Vladimir N.) One of the algorithms for solving the obstacle avoidance problem. (Russian. Russian summary) **2001b:93030**
**Wang, Shaopeng** (*with* Chow, Joe H.) Low-order controller design for SISO systems using coprime factors and LMI. (English summary) **2001d:93042**
**Yeung, D. W. K.** Feedback solution of a class of differential games with endogenous horizons. (English summary) **2001j:91021**
**You, K. H.** (*with* Lee, E. Bruce) Time maximum disturbance switch curve and isochrones of linear second-order systems with numerator dynamics. (English summary) **2001g:49029**
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**Zhou, Xun Yu** *see* **Fong, Ngo Tai, 2001d:49045**

## 49N45 Inverse problems

**Agoshkov, V. I.** Adjoint equations and perturbation algorithms in the optimal trajectory problem. (English summary) **2001h:49055**
**Aliev, Fikret A.** (*with* Safarova, N. A.) The inverse problem for discrete periodic optimal control systems. (Russian. English, Russian and Ukrainian summaries) **2001g:49056**
**Korotkiĭ, A. I.** On the dynamic reconstruction of controls and parameters under conditions of incomplete information about the system. (Russian. Russian summary) **2001a:49034**
— Dynamic reconstruction of controls under uncertainty conditions. (Russian. Russian summary) **2001c:49059**
**Maksimov, Vyacheslav I.** (*with* Pandol'fi, L.) Reconstruction of controls in nonlinear distributed systems. (Russian. Russian summary) **2001b:49049**
**Pandol'fi, L.** *see* **Maksimov, Vyacheslav I., 2001b:49049**
**Safarova, N. A.** *see* **Aliev, Fikret A., 2001g:49056**
**Wang, Ning** *see* **Yu, Cheng Jian**
**Yu, Cheng Jian** (*with* Wang, Ning) Inverse and optimation problems for vibration systems. I. Uniqueness. (English and Chinese summaries)
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**Crampin, M.** *see* **Sarlet, W., 2001e:58020**
**Kogan, M. M.** Solution of some inverse variational problems of the minimax control of nonlinear systems. (Russian. Russian summary) **2001k:49081**
**Lions, Jacques-Louis** Least regret control, virtual control and decomposition methods. (English summary) **2001g:93028**
**(Martínez, Eduardo)** *see* **Sarlet, W., 2001e:58020**
**Muzsnay, Zoltán** Graded Lie algebra associated to a SODE. (English summary) **2001k:70020**
**Prince, Geoff E.** The inverse problem in the calculus of variations and its ramifications. **2001e:37086**
**Sarlet, W.** (*with* Crampin, M.) Addendum to: "The integrability conditions in the inverse problem of the calculus of variations for second-order ordinary differential equations" [Acta. Appl. Math. **54** (1998), no. 3, 233–273; MR 99m:58072] by Sarlet, Crampin and E. Martinez. (English summary) **2001e:58020**
**Yamamoto, Masahiro** Reconstruction of source terms in evolution equations by exact controllability. (English summary) (*see* **2001c:93005**)

## 49N60 Regularity of solutions

**Ambrosio, Luigi** (*with* Paolini, Emanuele) Partial regularity for quasi minimizers of perimeter. (English summary) **2001g:49057**
**Bildhauer, Michael** (*with* Fuchs, Martin[2]) Regularity for dual solutions and for weak cluster points of minimizing sequences of variational problems with linear growth. (English and Russian summaries) **2001b:49050**
**Carlier, Guillaume** (*with* Lachand-Robert, Thomas) Regularity of solutions for some variational problems subject to a convexity constraint. (English summary) **2001k:49079**
**Cavaliere, Paola** (*with* D'Ottavio, A.; Leonetti, Francesco; Longobardi, M.) Differentiability for minimizers of anisotropic integrals. (English summary) **2001c:49060**
**Cianchi, Andrea** Local boundedness of minimizers of anisotropic functionals. (English summary) **2001b:49051**
**Courilleau, Patrick** (*with* Dumont, Serge; Hadiji, Rejeb) Regularity of minimizing maps with values in $S^2$ and some numerical simulations. (English summary) **2001m:49051**
**Dontchev, Asen L.** (*with* Hager, William W.) A new approach to Lipschitz continuity in state constrained optimal control. (English summary) **2001d:49060**
**D'Ottavio, A.** *see* **Cavaliere, Paola et al., 2001c:49060**
**Dumont, Serge** *see* **Courilleau, Patrick et al., 2001m:49051**
**Duzaar, Frank** (*with* Gastel, Andreas; Grotowski, Joseph F.) Partial regularity for almost minimizers of quasi-convex integrals. (English summary) **2001i:49062**
**Esposito, Luca** A remark on $C^{1,\alpha}$ regularity of minimizers. (English summary) **2001j:49060**
— (*with* Mingione, Giuseppe) Partial regularity for minimizers of convex integrals with $L \log L$-growth. (English summary) **2001f:49065**
**Fan, Xian Ling** (*with* Zhao, Dun) The quasi-minimizer of integral functionals with $m(x)$ growth conditions. **2001e:49063**
**Fuchs, Martin[2]** (*with* Mingione, Giuseppe) Full $C^{1,\alpha}$-regularity for free and constrained local minimizers of elliptic variational integrals with nearly linear growth. (English summary) **2001g:49058**
— *see also* **Bildhauer, Michael, 2001b:49050**
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**Giachetti, Daniela** (*with* Porzio, Maria Michaela) Local regularity results for minima of functionals of the calculus of variation. **2001b:49052**
**Grotowski, Joseph F.** *see* **Duzaar, Frank et al., 2001i:49062**
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**Hardt, Robert** (*with* Kinderlehrer, David) Some regularity results in ferromagnetism. (English summary) **2001i:49063**
**Kinderlehrer, David** *see* **Hardt, Robert, 2001i:49063**
**Lachand-Robert, Thomas** *see* **Carlier, Guillaume, 2001k:49079**
**Leaci, Antonio** Partial regularity for minimizers of free discontinuity problems with $p$-th growth.
**Leonetti, Francesco** *see* **Cavaliere, Paola et al., 2001c:49060**
**Longobardi, M.** *see* **Cavaliere, Paola et al., 2001c:49060**
**Mariconda, Carlo** (*with* Treu, Giulia) A comparison principle for minimizers. (English and French summaries) **2001j:49061**
**Mingione, Giuseppe** (*with* Siepe, Francesco) Full $C^{1,\alpha}$-regularity for minimizers of integral functionals with $L \log L$-growth. (English summary) **2001f:49066**
— *see also* **Esposito, Luca, 2001f:49065** *and* **Fuchs, Martin[2], 2001g:49058**
**Naniewicz, Zdzisław** (*with* Panagiotopoulos, Panagiotis D.) On regularity results for variational-hemivariational inequalities. (English summary) **2001a:49035**
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**Paolini, Emanuele** *see* **Ambrosio, Luigi, 2001g:49057**
**Passarelli di Napoli, Antonia** A regularity result for a class of polyconvex functionals. (English summary) **2001c:49061**
**Porzio, Maria Michaela** *see* **Giachetti, Daniela, 2001b:49052**
**Rigot, Séverine** Big pieces of $C^{1,\alpha}$-graphs for minimizers of the Mumford-Shah functional. (English summary) **2001f:49067**
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**Sarychev, Andrei V.** (*with* Torres, Delfim F. Marado) Lipschitzian regularity conditions for the minimizing trajectories of optimal control problems. (English summary) **2001j:49062**
**Siepe, Francesco** *see* **Mingione, Giuseppe, 2001f:49066**
**Šverák, Vladimír** (*with* Yan, Xiaodong) A singular minimizer of a smooth strongly convex functional in three dimensions. **2001f:49068**
**Torres, Delfim F. Marado** *see* **Sarychev, Andrei V., 2001j:49062**
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**Wang, Zhi Qiang[1]** Existence, nonexistence and symmetry property of local and global minimizers for a semilinear elliptic problem. **2001f:49069**
**Weiss, Georg Sebastian** Partial regularity for a minimum problem with free boundary. (English summary) **2001b:49053**
**Yan, Xiaodong** *see* **Šverák, Vladimír, 2001f:49068**
**Zelikin, M. I.** Irregularity of optimal control in regular extremal problems. (Russian. English and Russian summaries)
— (*with* Zelikina, L. F.) The deviation of a functional from its optimal value under chattering decreases exponentially as the number of switchings grows. (Russian. Russian summary) **2001a:49036**
**Zelikina, L. F.** *see* **Zelikin, M. I., 2001a:49036**
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**Albano, Paolo** (*with* Cannarsa, Piermarco; Sinestrari, Carlo) Regularity results for the minimum time function of a class of semilinear evolution equations of parabolic type. (English summary) **2001d:49042**
**Aseev, S. M.** On the theory of necessary conditions for optimality for problems with phase constraints. (Russian) **2001m:49027**
**Belmiloudi, Aziz** Regularity results and optimal control problems for the perturbation of Boussinesq equations of the ocean. (English summary) **2001i:76041**
**Bojarski, Jaroslaw L.** (*with* De Schepper, Hennie) Discontinuities in Hencky plasticity: regularity of the solutions. (English summary) **2001f:74004**
**Borisov, V. F.** Fuller's phenomenon: review. **2001i:93046**
**Cannarsa, Piermarco** *see* **Albano, Paolo et al., 2001d:49042**
**Cellina, Arrigo** On the validity of the Euler-Lagrange equation. (English summary) **2001m:49025**
**Conti, Monica** (*with* Merizzi, Luca; Terracini, Susanna) Radial solutions of superlinear equations on $\mathbf{R}^N$. I. A global variational approach. (English summary) **2001j:35053**
— (*with* Terracini, Susanna) Radial solutions of superlinear equations on $\mathbf{R}^N$. II. The forced case. (English summary) **2001j:35054**
**Crasta, Graziano** (*with* Malusa, Annalisa) Nonconvex minimization problems for functionals defined on vector valued functions. (English summary) **2001j:49006**
**Danilin, A. R.** (*with* Il'in, A. M.) On the structure of the solution of a perturbed time-optimality problem. (Russian. English and Russian summaries) **2001i:49007**
**Davydov, Aleksei A.** (*with* Zakalyukin, Vladimir M.) Classification of relative minima singularities. **2001c:58041**
**De Schepper, Hennie** *see* **Bojarski, Jaroslaw L., 2001f:74004**
**Dong, Zeng Fu** *see* **Fu, Yong Qiang**
**Frehse, Jens** *see* **Serëgin, G. A., 2001b:74016**
**Fu, Yong Qiang** (*with* Dong, Zeng Fu) Interior regularity for solutions to obstacle problems. (Chinese. English and Chinese summaries)
**Fuchs, Martin[2]** (*with* Serëgin, G. A.) ★ Variational methods for problems from plasticity theory and for generalized Newtonian fluids. **2001k:74043**
**Haga, Jun-ichi** (*with* Kikuchi, Norio) On the higher integrability for the gradients of the solutions to difference partial differential systems of elliptic-parabolic type. (English summary) **2001f:35285**
**Il'in, A. M.** *see* **Danilin, A. R., 2001i:49007**
**Kikuchi, Norio** *see* **Haga, Jun-ichi, 2001f:35285**
**Leonardi, Gian Paolo** (*with* Tamanini, Italo) On minimizing partitions with infinitely many components. (English and Italian summaries) **2001c:49073**
— Blow-up of oriented boundaries. (English summary) **2001h:49064**
**Malusa, Annalisa** *see* **Crasta, Graziano, 2001j:49006**
**Manita, L. A.** Behavior of extremals in a neighborhood of singular regimes, and nonsmooth Lyapunov functions in optimal control problems. (Russian. English and Russian summaries)
**Mascolo, Elvira** (*with* Siepe, Francesco) ★ Functionals of the calculus of variations with non standard growth conditions. **2001k:49006**
**Merizzi, Luca** *see* **Conti, Monica et al., 2001j:35053**
**Milyutin, A. A.** On a certain family of optimal control problems with phase constraint. **2001k:49051**
**Rădulescu, Vicenţiu D.** *see* **Şt. Cîrstea, Florica Corina, 2001m:49012**
**Ring, Wolfgang** Structural properties of solutions to total variation regularization problems. (English summary) **2001g:65077**
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## 49N70 Differential games

**Abbad, Mohammed** *see* **El Azouzi, Rachid et al., 2001e:49065**
**Aleeva, S. R.** A pursuer strategy in the "boy and crocodile" differential game with integral constraints. (Russian. English summary) (*see* **2001j:00023**)
**Altman, Eitan** (*with* Başar, Tamer; Pan, Zigang) Piecewise-deterministic differential games and dynamic teams with hybrid controls. (English summary) **2001f:49070**
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**Barabanov, A. E.** The sliding regime in the solution of a game-theoretic linear-quadratic problem. (Russian. Russian summary) **2001h:49056**
**Barucci, Emilio** Differential games with nonconvexities and positive spillovers. (English summary) **2001i:49064**
**Başar, Tamer** *see* **Altman, Eitan et al., 2001f:49070**
**Brykalov, S. A.** Continuous feedback in conflict control problems. (Russian)
**Carter, Thomas E.** Necessary and sufficient conditions for optimal impulsive rendezvous with linear equations of motion. (English summary) **2001j:49063**
**Chawla, Sanjay** A minmax problem for parabolic systems with competitive interactions. (English summary) **2001f:49071**
**Chen, Yang Zhou** Synthesis of optimal controls in a linear quadratic nonstationary differential game. (English summary)
**Chentsov, A. G.** Nonanticipating selectors of set-valued mappings and iterated procedures. (English summary) **2001k:49080**
— On the compatibility of various versions of the programmed iteration method. (Russian) **2001e:49064**
**Cherkasova, A. V.** *see* **Zakharov, Viktor**
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**Glizer, Valery Y.** Asymptotic solution of zero-sum linear-quadratic differential game with cheap control for minimizer. (English summary) **2001f:49072**
**Grigorieva, Svetlana V.** (*with* Ushakov, Vladimir N.) Use finite family of multivalued maps for constructing stable absorption operator. (English summary) **2001h:49057**
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**Huo, Pei Jun** (*with* Xuan, Guo Liang) Two players' harvesting strategies in offshore fishing industry based on maximum sustainable yield. (Chinese. English and Chinese summaries)
**Ibaidullaev, T. T.** Evasion maneuvers in the theory of differential games. (Russian. English and Uzbek summaries)
**Ibragimov, Gafurzhan I.** Optimality of pursuit time in a linear differential game with integral constraints on players' controls. (Russian. English and Uzbek summaries)
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— (*with* Plotnikov, A. V.) On the completion of pursuit for a nonautonomous two-person game. (Russian. English and Ukrainian summaries) **2001m:49052**
**Kovshov, A. M.** Geodesic parallel pursuit strategy in a simple motion pursuit game on the sphere. (English summary) **2001b:49055**
**Krasovskiĭ, A. N.** Control under lack of information. (English summary) **2001h:49058**
**Kusyutin, D. V.** *see* **Petrosyan, L. A.**
**Lukoyanov, Nikolai Yu.** A differential game with hereditary information. (English summary) (*see* **2000m:93011**)
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**Matichin, I. I.** The approach problem for quasilinear differential games with a variable structure. (Russian. English summary) **2001d:49062**
**Melikyan, T. T.** *see* **Avetisyan, Vahan, 2001a:49037**
**Morina, S. I.** *see* **Zobnin, B. B., 2001g:49060**
**Muminov, G. M.** *see* **Satimov, Numan Yunusovich**
**Ostapenko, E. V.** *see* **Perestyuk, N. A., 2001m:49054**
**Ostapenko, Valentin Vladimirovich** (*with* Timoshenko, O. M.) Differential games with random noise. (English summary) **2001k:49083**
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**Park, Jong Yeoul** *see* **Kang, Yong Han et al., 2001j:49065**
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**Perestyuk, N. A.** (*with* Ostapenko, E. V.) A controllable impulse action in games with fixed termination time. (Russian. English and Ukrainian summaries) **2001m:49054**
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— (*with* Kusyutin, D. V.) On the stability of $\epsilon$-equilibrium in the class of mixed strategies. (English summary)

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**Ryzhkova, I. L.** *see* **Ostapenko, Valentin Vladimirovich, 2001k:49082**
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**Shchur, A. V.** *see* **Chikrii, K. A.**
**Souroujon, Diko M.** A differential game described by a hyperbolic system. (English summary) **2001a:49038**
**Tarakanov, A. F.** The Nash-Slater solution of a hierarchical differential game under uncertainty conditions. (Russian. Russian summary) **2001i:49066**
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**Titov, O. Yu.** (*with* Ukhobotov, V. I.) A linear differential game of impulse encounter with a convex terminal set. (Russian. English and Russian summaries) **2001a:49039**
**Tôn, Bùi An** Feedback laws for $N$-person quasi-variational differential games. (English summary) **2001d:49063**
**Turova-Botkina, V. L.** *see* **Patsko, V. S., 2001m:49053**
**Ukhobotov, V. I.** Synthesis of a control in differential games of one type with fixed time. (Russian. Russian summary) **2001c:49062**
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**Ushakov, Vladimir N.** *see* **Grigorieva, Svetlana V., 2001h:49057**
**Xuan, Guo Liang** *see* **Huo, Pei Jun**
**Zakharov, Viktor** (*with* Cherkasova, A. V.) The Schtakelberg solution in the diamond-shaped differential games. (English summary) [The Stackelberg solution in diamond-shaped differential games]
**Zobnin, B. B.** (*with* Morina, S. I.) On a control problem with a restriction on the number of switchings. (Russian. Russian summary) **2001g:49060**

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**Balas, Gary J.** *see* **Lu, Wayne W. et al., 2001g:93032**
**Baranov, V. V.** Game-theoretic methods for stochastic control and decision making under uncertainty with respect to the state under conjugate basis conditions. I. (Russian. Russian summary) **2001c:93110**
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**Başar, Tamer** *see* **Xiao, Mingqing, 2001b:93029**
**Bernhard, Pierre** Max-plus algebra and mathematical fear in dynamic optimization. (English summary) **2001g:49045**
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**Carlson, Dean A.** (*with* Haurie, Alain B.) Infinite horizon dynamic games with coupled state constraints. (English summary) **2001d:91035**
**Chang, Fan-Ren** *see* **Yung, Chee-Fai et al.**
**Chikrii, G. Ts.** Using the impact of information delay for solution of game problems of pursuit. (Ukrainian summary)
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**EL-Kholy, N. A.** *see* **AL-Harbi, Saleh M., 2001g:91031**
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**(Gaitsgory, Vladimir)** *see* **Advances in dynamic games and applications, 2001b:00014**
**Grigorenko, N. L.** (*with* Kolosov, S. B.) Nonlinear dynamic games. (Russian. English and Russian summaries)
**Haurie, Alain B.** *see* **Carlson, Dean A., 2001d:91035**
**Kabanov, S. A.** Simultaneous synthesis of an optimal control as a hierarchical differential game. (Russian)
**Kocan, Maciej** (*with* Soravia, Pierpaolo) Differential games and nonlinear $\mathscr{H}_\infty$ control in infinite dimensions. (English summary) **2001k:93043**
**Kogan, M. M.** Design of robust $H^\infty$-suboptimal controllers as a solution of a differential game under uncertainty conditions: direct and inverse problems. (Russian. Russian summary) **2001m:93044**
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**Kovalenko, A. S.** (*with* Chikrii, K. A.) On a method for investigating game approach problems. (Russian. English, Russian and Ukrainian summaries) **2001a:91020**
**Krasovskiĭ, N. N.** On some control problems. (Russian. Russian summary) **2001d:93002**
**Kurzhanskiĭ, Aleksandr Borisovich** The Pontryagin alternating integral in the theory of the synthesis of controls. (Russian) **2001d:93037**
**Lee, E. Bruce** *see* **Lu, Wayne W. et al., 2001g:93032**
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**Lim, Cheng Chew** (*with* Li, Mingyan) True proportional navigation system with acceleration saturation constraint. (English summary) (*see* **2001j:90006**)
**Liu, John** Regulation of overlaps in technology development activities. (English summary)
**Lu, Wayne W.** (*with* Balas, Gary J.; Lee, E. Bruce) Linear quadratic performance with worst case disturbance rejection. (English summary) **2001g:93032**
**Maksimov, Vyacheslav I.** On a dynamic solution of equations in Banach spaces. (Russian. Russian summary) **2001k:65098**
**Mikheev, S. E.** A relaxation acceleration on the basis of attainability domains. (English summary) **2001k:65007**
**(Mizukami, Koichi)** *see* **Advances in dynamic games and applications, 2001b:00014**
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**Perestyuk, N. A.** (*with* Ostapenko, E. V.) Games with controlled impulse action at fixed moments of time. (Russian. English summary)
**Petrosyan, L. A.** Characteristic functions of cooperative differential games. (English summary)
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**Vorotnikov, V. I.** On the nonlinear game-theoretic problem of the reorientation of an asymmetric rigid body under uncontrolled noise and uncertain parameters. (Russian) **2001g:70032**
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# 49N75 Pursuit and evasion games

**Asaolu, O. S.** *see* **Ibidapo-Obe, O. et al.**
**Avetisyan, Vahan** (*with* Melikyan, T. T.) Guaranteed control of the search for a moving object in a rectangular domain. (Russian. Russian summary) **2001c:49063**
**Azamov, A. A.** (*with* Yakhshimov, Kh. K.) The quality problem for a linear differential game with critical properties. (Russian. Russian summary) **2001d:49064**
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**Cherkasov, O. Yu.** (*with* Yakushev, A. G.) Optimal pursuit of an object that evades along the sighting line. (Russian) (*see* **2001g:00013**)
**Ehtamo, Harri** *see* **Raivio, Tuomas, (2001b:00014)**
**Fomin, Fedor V.** A search problem on a graph under restriction of the velocity. (English summary)
**Glizer, Valery Y.** *see* **Shinar, Josef, 2001c:49064**
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**Ibragimov, Gafurzhan I.** On an $n$-person pursuit problem with integral constraints on the controls of the players. (Russian. English and Uzbek summaries)
**Keller, Joseph B.** Optimal running strategy to escape from pursuers. **2001g:49061**
**Kuchkarov, A. Sh.** On the pursuit problem in R. Rado's game on a convex surface. (Russian. English and Uzbek summaries)
— *see also* **Satimov, Numan Yunusovich, 2001i:49067**
**Melikyan, A. A.** (*with* Shinar, Josef) Identification and construction of singular surfaces in pursuit-evasion games. (English summary) **2001e:49067**
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**Petrov, Nikolai Nikandrovich** Pontryagin's nonstationary example with phase constraints. (Russian. English, Russian and Ukrainian summaries) **2001k:49085**
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**Satimov, Numan Yunusovich** (*with* Kuchkarov, A. Sh.) On the solution of a model differential pursuit-evasion game on a sphere. (Russian. English and Uzbek summaries) **2001i:49067**
**Shinar, Josef** (*with* Glizer, Valery Y.) Solution of a delayed information linear pursuit-evasion game with bounded controls. (English summary) **2001c:49064**
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**Barton, J. C.** (*with* Eliezer, C. J.) On pursuit curves. **2001e:34025**
**Chentsov, A. G.** On the iterative realization of nonanticipating multivalued mappings. (Russian) **2001f:49036**
**Chiarolla, Maria B.** (*with* Haussmann, Ulrich G.) The optimal control of the cheap monotone follower. (English summary) **2001f:93076**
**Chwa, Kyung-Yong** *see* **Lee, Jae-Ha et al., (2001g:68004)**
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**Lee, Jae-Ha** (*with* Shin, Sung Yong; Chwa, Kyung-Yong) Visibility-based pursuit-evasion in a polygonal room with a door. (English summary) (*see* **2001g:68004**)
**Lim, Wei Shi** Rendezvous-evasion as a multistage game with observed actions. (English summary) **2001d:91038**
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**Shin, Sung Yong** *see* **Lee, Jae-Ha et al., (2001g:68004)**
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**Zobnin, B. B.** (*with* Morina, S. I.) On a control problem with a restriction on the number of switchings. (Russian. Russian summary) **2001g:49060**

## 49N90 Applications of optimal control and differential games [see also 90C90, 93C95]

**Akhmetzyanov, A. V.** (*with* Kulibanov, V. N.) On the problem of the optimal control of the development of oil beds. (Russian. Russian summary)
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**Alamir, Mazen** *see* **Balloul, Iyad, (2001g:93005)**
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**Baumann, Helge** (*with* Oberle, H. J.) Numerical computation of optimal trajectories for coplanar, aeroassisted orbital transfer. (English summary) **2001i:49068**
**Baveja, A.** (*with* Feichtinger, Gustav; Hartl, Richard F.; Haunschmied, J. L.; Kort, Peter M.) A resource-constrained optimal control model for crackdown on illicit drug markets. (English summary) **2001e:49068**
**Bayón Arnáu, Luis F.** *see* **Suárez Rodríguez, P. et al., (2001c:90006)**
**Berdimuratov, M. K.** (*with* Lyashko, S. I.; Nomirovskiĭ, D. A.) Modeling and optimization of salinization of irrigated soil. (English summary)
— (*with* Krasnovskii, S. V.; Spivak, A. Yu.) Methods for optimization of salt and moisture transfer. (English summary)
**Bittner, Leonhard** Optimal control for dynamic versions of the Leontief and other matrix models. (English summary) **2001m:49055**
**Borisov, V. F.** (*with* Feichtinger, Gustav; Kryazhimskii, Arkadii V.) Optimal enforcement on a pure seller's market of illicit drugs. (English summary) **2001d:49065**
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**Cao, Chun Ling** (*with* Chen, Ren Zhao) Optimal boundary control for time-varying population systems. (Chinese. English and Chinese summaries)
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**Chen, Ren Zhao** *see* **Cao, Chun Ling**
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**Dikusar, V. V.** Regularization of a degenerate optimal control problem. (Russian. Russian summary) **2001c:49065**
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**Du, Dongyao** *see* **Xiong, Dasheng**
**Dykhta, V. A.** (*with* Rodnina, E. V.) Optimal impulse control in a dynamic model of consumer behavior. (Russian. Russian summary) (*see* **2001d:35002**)
— Impulse optimal control in models of economics and quantum electronics. (Russian. Russian summary) **2001i:49069**
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**Gadzhieva, R. O.** An optimal control problem for a plate vibration equation. (Russian. English and Azerbaijani summaries)
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**Hassan, H. M.** (*with* Serag, H. M.) Optimal control for quasi-static problem with viscous boundary conditions. (English summary)
**Haunschmied, J. L.** *see* **Baveja, A. et al., 2001e:49068**
**Hermann, Ulrike** (*with* Noll, Dominikus) Adaptive image reconstruction using information measures. (English summary) **2001i:49070**
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**Howlett, P. G.** (*with* Leizarowitz, A.) Optimal strategies for vehicle control problems with finite control sets. (English summary) **2001k:49087**
**Kepler, G. M.** (*with* Tran, H. T.; Banks, H. T.) Reduced order model compensator control of species transport in a CVD reactor. (English summary)
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## 49Qxx Manifolds [see also 58Exx]

## 49Q05 Minimal surfaces [see also 53A10, 58E12]

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## 49Q10 Optimization of shapes other than minimal surfaces [see also 90C90]

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## 49Q12 Sensitivity analysis

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## 49Q15 Geometric measure and integration theory, integral and normal currents [see also 28A75, 32C30, 58A25, 58C35]

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**De Cecco, Giuseppe** (*with* Palmieri, Giuliana) Area of LIP maps from $\mathbf{R}^n$ to a metric space. **2001e:49073**
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**Gunzburger, Max D.** (*with* Kim, Hongchul; Manservisi, Sandro) On a shape control problem for the stationary Navier-Stokes equations. (English summary) **2001m:49067**
**Kim, Hongchul** *see* **Gunzburger, Max D. et al., 2001m:49067**
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**Stanley, Lisa G.** Shape sensitivities for optimal design: a case study on the use of continuous sensitivity equation methods. (English summary) **2001m:49068**
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**Harrison, Jenny C.** Flux across nonsmooth boundaries and fractal Gauss/Green/Stokes' theorems. (English summary) **2001k:58017**
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**Khludnev, A. M.** *see* **Bach, Michael et al., 2001a:74039**
**Kimura, Masato** Shape derivative and linearization of moving boundary problems. (English summary) **2001j:35277**
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**Leonardi, Gian Paolo** Blow-up of oriented boundaries. (English summary) **2001h:49064**
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## 49Q20 Variational problems in a geometric measure-theoretic setting

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**Ambrosio, Luigi** (*with* Mantegazza, Carlo) Curvature and distance function from a manifold. (English summary) **2001d:49070**
**Balder, Erik J.** New fundamentals of Young measure convergence. **2001c:49070**
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**Colesanti, Andrea** (*with* Hug, Daniel) Steiner type formulae and weighted measures of singularities for semi-convex functions. (English summary) **2001h:49062**
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**Larsen, Christopher J.** Distance between components in optimal design problems with perimeter penalization. (English summary) **2001h:49063**
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**Mora, Maria Giovanna** *see* **Dal Maso, Gianni et al., 2001c:49072**
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**Bhattacharya, Kaushik** (*with* Dolzmann, Georg) Relaxed constitutive relations for phase transforming materials. (English summary) **2001g:74053**
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**Capone, Claudia** (*with* Formica, Maria Rosaria) A pairing between BMO functions and Jacobians. (English summary) **2001j:46033**
**Carstensen, Carsten** (*with* Roubíček, Tomáš) Numerical approximation of Young measures in non-convex variational problems. (English summary) **2001k:49069**
**Caselles, Vicent** *see* **Ballester, Coloma et al., 2001f:49027** *and* **Andreu, Fuensanta et al., 2001k:35143**
**Chentsov, A. G.** Two-valued measures as generalized elements: the problem of the extension of a system of conditions. (Russian) **2001i:49027**
**Chistyakov, V. V.** Mappings of bounded variation with values in a metric space: generalizations. **2001k:26012**
**Conti, Sergio** Branched microstructures: scaling and asymptotic self-similarity. (English summary) **2001j:74032**
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**De Pascale, Luigi** Limits of inner superposition operators and Young measures. (English summary) **2001a:47027**
**Dolzmann, Georg** *see* **Bhattacharya, Kaushik, 2001g:74053**
**Ebobisse, François Bille** On lower semicontinuity of integral functionals in $LD(\Omega)$. (English summary) **2001j:49021**
**Farahi, M. H.** *see* **Alavi, S. A. et al., 2001h:49048**
**Fonseca, Irene** *see* **Ambrosio, Luigi et al., 2001d:49003**
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**Gnepp, Andrei** *see* **Futer, David et al., 2001m:53010**
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**Hardt, Robert** (*with* Kinderlehrer, David) Some regularity results in ferromagnetism. (English summary) **2001i:49063**
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**Itokawa, Yoe** (*with* Kobayashi, Ryoichi) Minimizing currents in open manifolds and the $n-1$ homology of nonnegatively Ricci curved manifolds. (English summary) **2001e:53038**
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**Kamyad, A. V.** *see* **Alavi, S. A. et al., 2001h:49048**
**Kenig, Carlos E.** (*with* Toro, Tatiana) Free boundary regularity for harmonic measures and Poisson kernels. **2001d:31004**
— *see also* **Athanasopoulos, I. et al., 2001k:49003**
**Kinderlehrer, David** *see* **Hardt, Robert, 2001i:49063**
**Kirchheim, Bernd** *see* **Ambrosio, Luigi, 2001k:49095**
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**Kourogenis, Nikolaos C.** (*with* Papageorgiou, Nikolaos S.) Optimization and relaxation of nonlinear elliptic control systems. (English summary) **2001j:49025**
**Lasserre, Jean Bernard** *see* **Hernández Lerma, Onésimo, 2001h:28005**
**Laurence, Peter** (*with* Stredulinsky, Edward W.) Variational problems with topological constraints. (English summary) **2001a:49009**
**Lawlor, Gary** Proving area minimization by directed slicing. (English summary) **2001b:49057**
**Le Dret, Hervé** (*with* Raoult, Annie) From three-dimensional elasticity to the nonlinear membrane model. **2001e:74019**
**Marcellini, Paolo** *see* **Ambrosio, Luigi et al., 2001d:49003**
**Mazón, José M.** *see* **Andreu, Fuensanta et al., 2001a:74034** *and* **2001k:35143**
**McMath, David** *see* **Futer, David et al., 2001m:53010**
**Morgan, Frank** ★ Geometric measure theory. (English summary) **2001j:49001**
— (*with* Hutchings, Michael; Howards, Hugh Nelson) The isoperimetric problem on surfaces of revolution of decreasing Gauss curvature. (English summary) **2001b:58024**
**Muñoz-Bouzo, María J.** *see* **Ballve, M. E. et al., 2001f:28016**
**Munson, Brian A.** *see* **Futer, David et al., 2001m:53010**
**Neagu, Mircea** *see* **Udrişte, Constantin, 2001e:58013**
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**Nikolova, Mila** Local strong homogeneity of a regularized estimator. (English summary) **2001g:94005**
**Pahk, Sang-Hyoun** *see* **Futer, David et al., 2001m:53010**
**Palmieri, Giuliana** *see* **De Cecco, Giuseppe, 2001e:49073**
**Paolini, Emanuele** *see* **Ambrosio, Luigi, 2001g:49057**
**Papageorgiou, Nikolaos S.** *see* **Kourogenis, Nikolaos C., 2001j:49025**
**Parks, Harold R.** (*with* Pitts, Jon T.) Energy estimates for area minimizing hypersurfaces with arbitrary boundaries. (English summary) **2001b:49058**
**Pedregal, Pablo** ★ Variational methods in nonlinear elasticity. (English summary) **2001g:74005**
**Pitts, Jon T.** *see* **Parks, Harold R., 2001b:49058**
**Raoult, Annie** *see* **Le Dret, Hervé, 2001e:74019**
**Rigot, Séverine** Uniform partial regularity of quasi minimizers for the perimeter. (English summary) **2001d:49061**
**Ring, Wolfgang** Structural properties of solutions to total variation regularization problems. (English summary) **2001g:65077**
**Roubíček, Tomáš** *see* **Carstensen, Carsten, 2001k:49069**
**Rubinstein, Jacob** *see* **Berger, Jorge et al., 2001a:82076**
**Salsa, Sandro** *see* **Athanasopoulos, I. et al., 2001k:49003**
**Schatzman, Michelle V.** *see* **Berger, Jorge et al., 2001a:82076**
**Sofonea, Mircea** *see* **Andreu, Fuensanta et al., 2001a:74034**
**Sowers, Richard B.** Hydrodynamical limits and geometric measure theory: mean curvature limits from a threshold voter model. (English summary) **2001h:60179**
**Stredulinsky, Edward W.** *see* **Laurence, Peter, 2001a:49009**
**Sychev, Mikhail A.** Characterization of homogeneous gradient Young measures in case of arbitrary integrands. (English summary) **2001m:26029**
**Tahraoui, Rabah** *see* **Aubert, Gilles, 2001b:49016**
**Tartar, Luc** *see* **Ambrosio, Luigi et al., 2001d:49003**
**Taylor, Jean E.** Motion by weighted mean curvature is affine invariant. (English summary) **2001f:53143**
**Toader, Anca-Maria** Links between Young measures associated to constrained sequences. (English summary) **2001m:28005**
**Toro, Tatiana** *see* **Kenig, Carlos E., 2001d:31004**
**Udrişte, Constantin** (*with* Neagu, Mircea) Extrema of $p$-energy functional on a Finsler manifold. (English summary) **2001e:58013**
**Weiss, Georg Sebastian** Partial regularity for a minimum problem with free boundary. (English summary) **2001b:49053**
**White, Brian Cabell** The size of the singular set in mean curvature flow of mean-convex sets. **2001j:53098**
**Yoder, Cara** *see* **Futer, David et al., 2001m:53010**

## 49R50 Variational methods for eigenvalues of operators [see also 47A75]

**Chanillo, Sagun** (*with* Grieser, Daniel; Imai, Masaki; Kurata, Kazuhiro; Ohnishi, I.) Symmetry breaking and other phenomena in the optimization of eigenvalues for composite membranes. (English summary) **2001i:49077**
**Dolbeault, Jean** (*with* Esteban, Maria J.; Séré, Eric) Variational characterization for eigenvalues of Dirac operators. (English summary) **2001f:49083**
**Esteban, Maria J.** *see* **Dolbeault, Jean et al., 2001f:49083**
**Grieser, Daniel** *see* **Chanillo, Sagun et al., 2001i:49077**
**Imai, Masaki** *see* **Chanillo, Sagun et al., 2001i:49077**
**Kurata, Kazuhiro** *see* **Chanillo, Sagun et al., 2001i:49077**
**Ohnishi, I.** *see* **Chanillo, Sagun et al., 2001i:49077**
**Séré, Eric** *see* **Dolbeault, Jean et al., 2001f:49083**

Items with secondary classifications in 49R50

**Binding, Paul A.** (*with* Eschwé, David; Langer, Heinz) Variational principles for real eigenvalues of self-adjoint operator pencils. (English summary) **2001i:47017**
**Bucur, Dorin** (*with* Varchon, Nicolas) Global minimizing domains for the first eigenvalue of an elliptic operator with non-constant coefficients. (English summary) **2001c:35170**
— (*with* Henrot, Antoine) Minimization of the third eigenvalue of the Dirichlet Laplacian. (English summary) **2001m:35242**
**Chen, Mu Fa** Eigenvalues, inequalities and ergodic theory. II. (English and Chinese summaries) **2001d:60080**
— (*with* Wang, Feng-Yu) Cheeger's inequalities for general symmetric forms and existence criteria for spectral gap. (English summary) **2001g:60174**
**Correa, Rafael** (*with* Seeger, Alberto) Eigenvalue localization for multivalued operators. (English summary) **2001a:47052**
**Davies, E. Brian** Pseudospectra of differential operators. (English summary) **2001b:47034**
**Dolbeault, Jean** (*with* Esteban, Maria J.; Séré, Eric) On the eigenvalues of operators with gaps. Application to Dirac operators. (English summary) **2001e:47040**
**Eschwé, David** *see* **Binding, Paul A. et al., 2001i:47017**
**Esteban, Maria J.** *see* **Dolbeault, Jean et al., 2001e:47040**
**Greenberg, Leon** (*with* Maddocks, John H.; Hoffman, Kathleen A.) The bordered operator and the index of a constrained critical point. (English summary) **2001j:49033**
**Henrot, Antoine** *see* **Bucur, Dorin, 2001m:35242**
**Hoffman, Kathleen A.** *see* **Greenberg, Leon et al., 2001j:49033**
**Langer, Heinz** *see* **Binding, Paul A. et al., 2001i:47017**
**Maddocks, John H.** *see* **Greenberg, Leon et al., 2001j:49033**
**Nazarov, A. I.** On the "one-dimensionality" of the extremal in the Poincaré inequality in the square. (Russian. English and Russian summaries) **2001i:49010**
**Seeger, Alberto** *see* **Correa, Rafael, 2001a:47052**
**Séré, Eric** *see* **Dolbeault, Jean et al., 2001e:47040**
**Varchon, Nicolas** *see* **Bucur, Dorin, 2001c:35170**
**Wang, Feng-Yu** *see* **Chen, Mu Fa, 2001g:60174**

## 49S05 Variational principles of physics

Items with secondary classifications in 49S05

**Atanackovic, Teodor M.** On a Vujanovic-type variational principle with application to rod theory. (English summary) **2001k:74061**
**Benedetto, Dario** (*with* Caglioti, Emanuele; Libero, Roberto) Non-trapping sets and Huygens principle. (English and French summaries) **2001g:35103**
**Caglioti, Emanuele** *see* **Benedetto, Dario et al., 2001g:35103**
**Dolbeault, Jean** (*with* Esteban, Maria J.; Séré, Eric) Variational characterization for eigenvalues of Dirac operators. (English summary) **2001f:49083**
**Esteban, Maria J.** *see* **Dolbeault, Jean et al., 2001f:49083**
**Lazzari, Barbara** (*with* Nibbi, Roberta) Variational principles in electromagnetism. (English summary) **2001h:78007**
**Libero, Roberto** *see* **Benedetto, Dario et al., 2001g:35103**
**Nibbi, Roberta** *see* **Lazzari, Barbara, 2001h:78007**
**Séré, Eric** *see* **Dolbeault, Jean et al., 2001f:49083**
**Vujanović, B. D.** The bilinear canonical forms of variational principles in heat conduction theory. (English summary) **2001a:58022**

# 51–XX Geometry {For algebraic geometry, see 14–XX.}

## 51–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Cederberg, Judith N.** ★ A course in modern geometries. (English summary) **2001f:51001**
**Faugeras, Olivier** (*with* Luong, Quang-Tuan) ★ The geometry of multiple images. (English summary) **2001k:51001**
**Fenn, Roger** ★ Geometry. (English summary) **2001j:51001**
**Hartshorne, Robin** ★ Geometry: Euclid and beyond. (English summary) **2001h:51001**
**Kim, Hong-Jong** Euclidean geometry. (Korean. Korean summary)
**Luong, Quang-Tuan** *see* **Faugeras, Olivier**, **2001k:51001**
**(Papadopoulo, Théo)** *see* **Faugeras, Olivier**, **2001k:51001**
**Ramírez-Galarza, Ana Irene** (*with* Sienra-Loera, Guillermo) ★ Invitación a las geometrías no euclidianas. (Spanish. Spanish summary) [Introduction to non-Euclidean geometry] **2001i:51001**
**Sienra-Loera, Guillermo** *see* **Ramírez-Galarza, Ana Irene**, **2001i:51001**
**Smith, James T.** ★ Methods of geometry. (English summary)

Items with secondary classifications in 51–01

**Gallier, Jean** ★ Geometric methods and applications. (English summary) **2001i:53001**
**Hahn, Werner** ★ Symmetry as a developmental principle in nature and art.
**Jenkyns, Tom** (*with* Muller, E. R.) Triangular triples from ceilings to floors. **2001g:05019**
**Muller, E. R.** *see* **Jenkyns, Tom**, **2001g:05019**
**(Riedl, Rupert)** *see* **Hahn, Werner**

## 51–02 Research exposition (monographs, survey articles)

**Faure, Claude-Alain** (*with* Frölicher, Alfred) ★ Modern projective geometry. (English summary) **2001j:51002**
**Frölicher, Alfred** *see* **Faure, Claude-Alain**, **2001j:51002**

Items with secondary classifications in 51–02

**Hartshorne, Robin** ★ Geometry: Euclid and beyond. (English summary) **2001h:51001**

## 51–03 Historical (must also be assigned at least one classification number from Section 01)

**Aroca Hernández-Ros, José Manuel** Geometry: space, form, position. (Spanish. English summary)
**Blunck, Andrea** Moufang-Ebenen. Ruth Moufang und ihr Beitrag zu den Grundlagen der Geometrie. [Moufang planes. Ruth Moufang and her contribution to the foundations of geometry]
**(Coxeter, H. S. M.)** *see* **Trudeau, Richard**, **2001c:51001**
**Martínez de la Escalera Castells, Nieves** The cone and conics. (Spanish. Spanish summary) **2001f:51002**
**(Menzel, Christof)** *see* **Trudeau, Richard**, **2001c:51001**
**(Moufang, Ruth)** *see* **Blunck, Andrea**
**Trudeau, Richard** ★ Die geometrische Revolution. (German. German summary) [The non-Euclidean revolution] **2001c:51001**
**Vesley, Richard** Constructivity in geometry. (English summary)

Items with secondary classifications in 51–03

**(Apollonius of Perga)** *see* **Khabelashvili, A. V.**
**Artmann, Benno** Euclid's and Hilbert's foundations of geometry. **2001m:01027**
**(Bakker, Miente)** *see* **Grootendorst, Albert W.**, **2001i:01028**
**(Beltrami, Eugenio)** *see* **Cicenia, Salvatore**, **2001g:01022**
**Bychkov, S. N.** Geometry and the axiomatic method. (Russian. English summary)
**Cicenia, Salvatore** The letters of E. Beltrami to A. Genocchi on non-Euclidean geometry. (Italian. English and Italian summaries) **2001g:01022**
**(Einstein, Albert)** *see* **Miller, Arthur**, **2001h:01028**
**Engels, Hermann** Über Kreisquadraturen der Antike. (English summary) [On quadratures of the circle in antiquity] **2001e:01002**
**(Euclid)** *see* **Artmann, Benno**, **2001m:01027**
**(Genocchi, A.)** *see* **Cicenia, Salvatore**, **2001g:01022**
**Giering, Oswald** Visualisierung und klassische Geometrie. [Visualization and classical geometry]
**Givant, Steven** *see* **Tarski, Alfred**, **2001k:03019**
**Gray, Jeremy J.** Geometry—formalisms and intuitions. **2001c:01019**
**Grootendorst, Albert W.** ★ Jan de Witt's *Elementa curvarum linearum, liber primus*. (English summary) **2001i:01028**
**Heiede, Torkil** The history of non-Euclidean geometry. (*see* **2001f:01008**)
**(Hilbert, David[1])** *see* **Toepell, Michael**, **2001j:01033** *and* **Artmann, Benno**, **2001m:01027**
**Hiriart-Urruty, Jean-B.** *see* **Quadrat, Jean-Pierre et al.**
**(Hobbes, Thomas)** *see* **Jesseph, Douglas M.**, **2001h:01017**
**Jesseph, Douglas M.** ★ Squaring the circle. **2001h:01017**
**Khabelashvili, A. V.** The problem of Apollonius of Perga. (Russian. English summary)
**Kobayashi, Tatsuhiko** Archimedean spirals in early Japanese mathematics. (Japanese) (*see* **2001c:01002**)
**Lasserre, Jean Bernard** *see* **Quadrat, Jean-Pierre et al.**
**(Liu, Hui)** *see* **Straffin, Philip D., Jr.**, **2001a:01007**
**Lyuter, I. O.** On the history of the problem of Apollonius of Perga on the construction of a circle tangent to three given circles. (Russian. English summary)
**Miller, Arthur** Einstein, Poincaré, and the testability of geometry. **2001h:01028**
**(Poincaré, Henri)** *see* **Miller, Arthur**, **2001h:01028**
**Quadrat, Jean-Pierre** (*with* Lasserre, Jean Bernard; Hiriart-Urruty, Jean-B.) Pythagoras' theorem for areas. (English summary)
**Straffin, Philip D., Jr.** Liu Hui and the first golden age of Chinese mathematics. **2001a:01007**
**Sufiyarova, I. I.** *see* **Zverkina, G. A.**
**Tarski, Alfred** (*with* Givant, Steven) Tarski's system of geometry. (English summary) **2001k:03019**
**Toepell, Michael** The origin and the further development of Hilbert's *Grundlagen der Geometrie*. **2001j:01033**
**(Wallis, John)** *see* **Jesseph, Douglas M.**, **2001h:01017**
**(de Witt, Jan)** *see* **Grootendorst, Albert W.**, **2001i:01028**
**Zverkina, G. A.** (*with* Sufiyarova, I. I.) On methods for approximating the circumference by the perimeters of regular polygons. (Russian. English summary)

Items listed otherwise than by author

**Correspondence:**
**Beltrami, Eugenio–Genocchi, Angelo** *see* **Cicenia, Salvatore**, **2001g:01022**

## 51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

**Ebert, Gary L.** Constructions in finite geometry using computer algebra systems. (English summary) **2001k:51017**
**Horváth, Alexandru** Proving geometric theorems via Groebner bases theory. (English summary)

## 51–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 51–06

**Andreescu, Titu** (*with* Gelca, Răzvan) ★ Mathematical Olympiad challenges. (English summary) **2001a:00002**
**Gelca, Răzvan** *see* **Andreescu, Titu**, **2001a:00002**
**(Saul, Mark)** *see* **Andreescu, Titu**, **2001a:00002**

# 51Axx Linear incidence geometry

## 51A05 General theory and projective geometries

**Devillers, Alice** $d$-homogeneous and $d$-ultrahomogeneous linear spaces. (English summary) **2001f:51003**
**Freni Casale, Sveva** Linear spaces with a family of mutually intersecting lines. (English summary) **2001i:51002**
**Oryszczyszyn, Henryk** (*with* Prażmowski, Krzysztof) On projections in spaces of pencils. (English summary) **2001a:51001**
**Prażmowski, Krzysztof** *see* **Oryszczyszyn, Henryk**, **2001a:51001**
**Rajola, Sandro** (*with* Scafati Tallini, Maria) Point transitive affine planes. (English summary) **2001b:51001**
**Scafati Tallini, Maria** *see* **Rajola, Sandro**, **2001b:51001**

Items with secondary classifications in 51A05

**Ariyawansa, K. A.** (*with* Davidon, W. C.; McKennon, K. D.) On a characterization of convexity-preserving maps, Davidon's collinear scalings and Karmarkar's projective transformations. (English summary) **2001m:90139**
**Balbiani, Philippe** (*with* Fariñas del Cerro, Luis) Diagrammatic reasoning in projective geometry. **2001a:03022**
**Cederberg, Judith N.** ★ A course in modern geometries. (English summary) **2001f:51001**
**Davidon, W. C.** *see* **Ariyawansa, K. A. et al.**, **2001m:90139**
**Durante, Nicola** (*with* Napolitano, Vito; Olanda, Domenico) The Grassmann space of a planar space. (English summary) **2001g:51015**
**Fariñas del Cerro, Luis** *see* **Balbiani, Philippe**, **2001a:03022**
**Freni Casale, Sveva** Spreads in finite linear spaces. (Italian. English summary) **2001e:51009**
**Frohardt, Daniel** (*with* Magaard, Kay) Grassmannian fixed point ratios. (English summary) **2001i:20104**
**Kiss, György** Generalized cotangency sets in projective spaces. (English summary) **2001e:51006**
**Landgev, Ivan N.** Linear codes over finite fields and finite projective geometries. (English summary) **2001k:94067**
**Magaard, Kay** *see* **Frohardt, Daniel**, **2001i:20104**
**McKennon, K. D.** *see* **Ariyawansa, K. A. et al.**, **2001m:90139**
**Napolitano, Vito** *see* **Durante, Nicola et al.**, **2001g:51015**
**Olanda, Domenico** *see* **Durante, Nicola et al.**, **2001g:51015**
**Scafati Tallini, Maria** (*with* Tallini, Giuseppe) On the meaning of dimension in a geometric structure. (English summary) **2001h:51006**
**Suppes, Patrick** Quantifier-free axioms for constructive affine plane geometry. **2001m:03024**
**Tallini, Giuseppe** *see* **Scafati Tallini, Maria**, **2001h:51006**
**Taniguchi, Hiroaki** On the embedding of an affine space into a projective space. (English summary) **2001g:51002**
**Waterhouse, William C.** Asymmetric linear correlations of projective planes over fields. (English summary) **2001k:51015**

## 51A10 Homomorphism, automorphism and dualities

**Gelashvili, T.** (*with* Lashkhi, A.) Coset lattices and the fundamental theorem of affine geometry for Lie algebras. (English and Georgian summaries) **2001i:51003**
**Kalhoff, Franz B.** On epimorphisms and projectivities of projective planes. (English summary) **2001j:51003**
**Lashkhi, A.** *see* **Gelashvili, T.**, **2001i:51003**
**Li, Hui Ling** *see* **Liu, Wei Jun**

**Liu, Wei Jun** (*with* Li, Hui Ling) Solvable line-transitive automorphism groups of finite linear spaces. (English summary)
**Scafati Tallini, Maria** Study of classical subsets in a semilinear space. (Italian. English summary) **2001d:51001**

Items with secondary classifications in 51A10

**Biller, Harald** Actions of compact groups on compact $(4, m)$-quadrangles. (English summary) **2001m:51021**
**Dempwolff, Ulrich** (*with* Fisher, J. Chris; Herman, Allen) Semilinear transformations over finite fields are Frobenius maps. (English summary) **2001k:20109**
**Devillers, Alice** $d$-homogeneous and $d$-ultrahomogeneous linear spaces. (English summary) **2001f:51003**
**Fisher, J. Chris** *see* **Dempwolff, Ulrich et al., 2001k:20109**
**Grundhöfer, Theo** (*with* Stroppel, Markus) Direct limits and maximality of stable planes. (English summary) **2001h:51020**
— (*with* Knarr, Norbert; Kramer, Linus) Flag-homogeneous compact connected polygons. II. (English summary) **2001m:51022**
**Hähl, Hermann** Sixteen-dimensional locally compact translation planes with large automorphism groups having no fixed points. (English summary) **2001h:51021**
**Herman, Allen** *see* **Dempwolff, Ulrich et al., 2001k:20109**
**Kalhoff, Franz B.** A note on the place topology of projective planes. (English summary) **2001k:51018**
**Knarr, Norbert** *see* **Grundhöfer, Theo et al., 2001m:51022**
**Kramer, Linus** *see* **Grundhöfer, Theo et al., 2001m:51022**
**Stroppel, Markus** *see* **Grundhöfer, Theo, 2001h:51020**

## 51A15 Structures with parallelism

**Maier, Peter** Stable planes from Lie groups with planar partitions. (English summary) **2001m:51001**
**Pambuccian, Victor** A logical reading of the nonexistence of proper homomorphisms between affine spaces. (English summary) **2001e:51001**

## 51A20 Configuration theorems

**Grünbaum, Branko** Astral $(n_4)$ configurations. **2001b:51002**
— Which $(n_4)$ configurations exist? **2001f:51004**

Items with secondary classifications in 51A20

**Akivis, Maks Aizikovich** (*with* Goldberg, Vladislav V.) Differential geometry of webs. **2001f:53036**
**Glynn, David G.** On the representation of configurations in projective spaces. **2001f:51005**
**Goldberg, Vladislav V.** *see* **Akivis, Maks Aizikovich, 2001f:53036**
**Grünbaum, Branko** Connected $(n_4)$ configurations exist for almost all $n$. **2001f:05037**

## 51A25 Algebraization [see also 12Kxx, 20N05]

**Pambuccian, Victor** Affine super-Pythagorean geometry. **2001d:51002**
**Schörner, Erwin** Zur Konstruktion von Hahn-Ternärkörpern als Ternärkörper formaler Potenzreihen. (English and German summaries) [On the construction of Hahn ternary fields as ternary fields of formal power series] **2001j:51004**
— Hahn-Ternärkörper mit speziellen Faktorsystemen. (English and German summaries) [Hahn ternary fields with special factor systems] **2001j:51005**

Items with secondary classifications in 51A25

**Conradt, Oliver** The principle of duality in Clifford algebra and projective geometry. (English summary) **2001m:15068**
**Dudek, Wiesław A.** (*with* Stojaković, Zoran) On Rusakov's $n$-ary $rs$-groups. (English summary)
**Russeva, Assia P.** On the subplanes of the Hughes planes of odd square prime order. (English summary) **2001h:51015**
**Stojaković, Zoran** *see* **Dudek, Wiesław A.**

## 51A30 Desarguesian and Pappian geometries

**Blokhuis, Aart** (*with* Sziklai, Péter) On planes of order $p^2$ in which every quadrangle generates a subplane of order $p$. (English summary) **2001e:51002**
**Blunck, Andrea** (*with* Havlicek, Hans) Affine spaces within projective spaces. (English summary) **2001b:51003**
**Fiori, Carla** *see* **Pellegrino, Consolato, (2001j:00033)**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001b:51003**
**Pellegrino, Consolato** (*with* Fiori, Carla) Formally Euclidean planes. (Italian. English summary) (*see* **2001j:00033**)
**Pickert, Günter** Kegelschnittbüschel und Inversion. (English summary) [Bundles of conics and inversion] **2001k:51002**
**Sziklai, Péter** *see* **Blokhuis, Aart, 2001e:51002**

Items with secondary classifications in 51A30

**Metsch, Klaus** (*with* Storme, Leo) 2-blocking sets in PG$(4, q)$, $q$ square. (English summary) **2001c:51004**
**Riesinger, Rolf** The second extension of the Thas-Walker construction. (English summary) **2001k:51005**
**Storme, Leo** *see* **Metsch, Klaus, 2001c:51004**

## 51A35 Non-Desarguesian affine and projective planes

**Betten, Dieter** (*with* Riesinger, Rolf) Discussing Knarr's 2-surface of $\mathbf{R}^4$ which generates the first single shift plane. (English summary) **2001h:51002**
**Celik, B.** (*with* Ciftci, S.) Cross ratios of points and lines in Moufang planes. (English summary) **2001k:51003**
**Ciftci, S.** *see* **Celik, B., 2001k:51003**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Infinite Baer nets. (English summary) **2001h:51003**
**Johnson, Norman Lloyd[1]** *see* **Jha, Vikram, 2001h:51003**
**Riesinger, Rolf** *see* **Betten, Dieter, 2001h:51002**

Items with secondary classifications in 51A35

**Biliotti, Mauro** (*with* Francot, Eliana) Blocking sets of type $(1, k)$ in a finite projective plane. (English summary) **2001c:51003**
**Francot, Eliana** *see* **Biliotti, Mauro, 2001c:51003**
**Kalhoff, Franz B.** On epimorphisms and projectivities of projective planes. (English summary) **2001j:51003**
**Klein, Hauke** (*with* Knarr, Norbert; Löwen, Rainer) Four-dimensional compact projective planes admitting an affine Hughes group. (English summary) **2001h:51022**
**Knarr, Norbert** *see* **Klein, Hauke et al., 2001h:51022**
**Löwen, Rainer** *see* **Klein, Hauke et al., 2001h:51022**
**Russeva, Assia P.** On the subplanes of the Hughes planes of odd square prime order. (English summary) **2001h:51015**

## 51A40 Translation planes and spreads

**Biliotti, Mauro** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) The collineation groups of generalized twisted field planes. (English summary) **2001d:51003**
**Dempwolff, Ulrich** (*with* Guthmann, Andreas) Applications of number theory to ovoids and translation planes. (English summary) **2001h:51004**
**Guthmann, Andreas** *see* **Dempwolff, Ulrich, 2001h:51004**
**Jha, Vikram** *see* **Biliotti, Mauro et al., 2001d:51003**
**Johnson, Norman Lloyd[1]** New and old results on flocks of circle planes. **2001b:51004**
— Desarguesian partial parallelisms. (English summary) **2001k:51004**
— *see also* **Biliotti, Mauro et al., 2001d:51003**
**Riesinger, Rolf** The second extension of the Thas-Walker construction. (English summary) **2001k:51005**
— A class of topological spreads with unisymplecticly complemented regulization. (English summary) **2001i:51004**

Items with secondary classifications in 51A40

**Betten, Dieter** (*with* Riesinger, Rolf) Discussing Knarr's 2-surface of $\mathbf{R}^4$ which generates the first single shift plane. (English summary) **2001h:51002**
**Blunck, Andrea** (*with* Havlicek, Hans) Affine spaces within projective spaces. (English summary) **2001b:51003**
**Bödi, Richard** (*with* Immervoll, Stefan; Löwe, Harald) Smooth stable planes and the moduli spaces of locally compact translation planes. (English summary) **2001j:51016**
**Drudge, Keldon** Tactical decompositions of Steiner systems and orbits of projective groups. (English summary) **2001m:05031**
**Ganley, Michael J.** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) The translation planes admitting a nonsolvable doubly transitive line-sized orbit. (English summary) **2001h:51012**
**Hähl, Hermann** Sixteen-dimensional locally compact translation planes with large automorphism groups having no fixed points. (English summary) **2001h:51021**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001b:51003**
**Heineken, Johannes** Lie rings and Lie algebras with ideal spreads are abelian or of rank 2. (English summary) **2001b:17039**
— Spreadable nilpotent nonassociative rings and $K$-algebras. (English summary) **2001b:17012**
**Hiramine, Yutaka** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Characterization of translation planes by orbit lengths. (English summary) **2001b:51012**
— (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Characterization of translation planes by orbit lengths. II. Even order. (English summary) **2001h:51013**
**Immervoll, Stefan** *see* **Bödi, Richard et al., 2001j:51016**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Infinite Baer nets. (English summary) **2001h:51003**
— *see also* **Hiramine, Yutaka et al., 2001b:51012**; **2001h:51013** *and* **Ganley, Michael J. et al., 2001h:51012**
**Johnson, Norman Lloyd[1]** *see* **Hiramine, Yutaka et al., 2001b:51012**; **2001h:51013**; **Jha, Vikram, 2001h:51003** *and* **Ganley, Michael J. et al., 2001h:51012**
**Löwe, Harald** *see* **Bödi, Richard et al., 2001j:51016**
**Maier, Peter** Stable planes from Lie groups with planar partitions. (English summary) **2001m:51001**
**Riesinger, Rolf** *see* **Betten, Dieter, 2001h:51002**

## 51A45 Incidence structures imbeddable into projective geometries

**Cooperstein, Bruce N.** Generating long root subgroup geometries of classical groups over finite prime fields. (English summary) **2001a:51002**
— On the generation of some embeddable GF(2) geometries. (English summary) **2001m:51002**
**Freni Casale, Sveva** Quasiparallel lines in finite linear spaces. **2001d:51004**
**Glynn, David G.** On the representation of configurations in projective spaces. **2001f:51005**
**Heiss, Stefan** A note on embeddable $\mathbf{F}_2$-geometries. (English summary) **2001g:51001**
**Lo Re, P. M.** (*with* Olanda, Domenico) Planar spaces with invisible planes. (English summary) **2001k:51006**
**Olanda, Domenico** *see* **Lo Re, P. M., 2001k:51006**
**Taniguchi, Hiroaki** On the embedding of an affine space into a projective space. (English summary) **2001g:51002**

Items with secondary classifications in 51A45

**Blunck, Andrea** (*with* Havlicek, Hans) Affine spaces within projective spaces. (English summary) **2001b:51003**
— (*with* Havlicek, Hans) Projective representations. I. Projective lines over rings. (English summary) **2001m:51005**

— (*with* Havlicek, Hans) Projective representations. II. Generalized chain geometries. (English summary) **2001m:51006**
**Durante, Nicola** (*with* Napolitano, Vito; Olanda, Domenico) The Grassmann space of a planar space. (English summary) **2001g:51015**
**Freni Casale, Sveva** Spreads in finite linear spaces. (Italian. English summary) **2001e:51009**
— Linear spaces with a family of mutually intersecting lines. (English summary) **2001i:51002**
**Gottschalk, Harald** On the geometry of Baer subplanes in PG(2, 4). (English summary) **2001i:51008**
**Günaltılı, İbrahim** (*with* Olgun, Şükrü) On the embedding of some linear spaces in finite projective planes. (English summary) **2001i:51009**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001b:51003; 2001m:51005** *and* **2001m:51006**
**Homma, Masaaki[2]** (*with* Kim, Seon Jeong; Yoo, Mi Ja) Projective systems supported on the complement of two linear subspaces. (English summary) **2001i:94071**
**Kim, Seon Jeong** *see* **Homma, Masaaki[2] et al., 2001i:94071**
**List, K.** On orthogonality-preserving Plücker transformations of hyperbolic spaces. (English summary) **2001j:51015**
**Löwe, Harald** (*with* Löwen, Rainer; Soytürk, Emine) Self-orthogonal compact spreads and unitals in topological translation planes. (English summary) **2001k:51019**
**Löwen, Rainer** *see* **Löwe, Harald et al., 2001k:51019**
**Napolitano, Vito** *see* **Durante, Nicola et al., 2001g:51015**
**Olanda, Domenico** *see* **Durante, Nicola et al., 2001g:51015**
**Olgun, Şükrü** *see* **Günaltılı, İbrahim, 2001i:51009**
**Pach, János** (*with* Pinchasi, Rom) Bichromatic lines with few points. (English summary) **2001f:05156**
**Pinchasi, Rom** *see* **Pach, János, 2001f:05156**
**Soytürk, Emine** *see* **Löwe, Harald et al., 2001k:51019**
**Steinbach, Anja** (*with* Van Maldeghem, Hendrik) Generalized quadrangles weakly embedded of degree 2 in projective space. (English summary) **2001b:51008**
**Van Maldeghem, Hendrik** *see* **Steinbach, Anja, 2001b:51008**
**Yoo, Mi Ja** *see* **Homma, Masaaki[2] et al., 2001i:94071**

## 51A50 Polar geometry, symplectic spaces, orthogonal spaces

**Huang, Wen-Ling** On the fundamental theorems of the geometries of symmetric matrices. (English summary) **2001b:51005**
**McClurg, Phillip** On the universal embedding of dual polar spaces of type $Sp_{2n}(2)$. (English summary) **2001h:51005**

Items with secondary classifications in 51A50

**Cohen, Arjeh Marcel** (*with* Cuypers, H.; Sterk, H.) Linear groups generated by reflection tori. (English summary) **2001e:20038**
**Cooperstein, Bruce N.** On the generation of some embeddable GF(2) geometries. (English summary) **2001m:51002**
**Cuypers, H.** *see* **Cohen, Arjeh Marcel et al., 2001e:20038**
**El-Atrash, Mohammed** *m*-systems in some parapolar spaces. (English summary) **2001e:51004**
**Govaert, Eline** (*with* Van Maldeghem, Hendrik) Two remarks on generalized hexagons. (English summary) **2001e:51003**
**Hamilton, Nicholas** (*with* Quinn, Catherine T.) *m*-systems of polar spaces and maximal arcs in projective planes. (English summary) **2001d:51008**
**Metsch, Klaus** A Bose-Burton theorem for elliptic polar spaces. (English summary) **2001b:51014**
**Quinn, Catherine T.** *see* **Hamilton, Nicholas, 2001d:51008**
**Sterk, H.** *see* **Cohen, Arjeh Marcel et al., 2001e:20038**
**Van Maldeghem, Hendrik** Distance transitive generalized quadrangles of prime order. (English summary) **2001j:51008**
— *see also* **Govaert, Eline, 2001e:51003**

## 51A99 None of the above, but in this section

**Oprea, Nicolae** *see* **Vasiu, Angela, (2001d:11005)**
**Sudoplatov, S. V.** Group polygonometrics with symmetrical conditions. (English summary) **2001f:51006**
**Vasiu, Angela** (*with* Oprea, Nicolae) From Bolyai's geometry to Smarandache anti-geometry. (English summary) (*see* **2001d:11005**)

# 51Bxx Nonlinear incidence geometry

## 51B05 General theory

**Blunck, Andrea** (*with* Havlicek, Hans) Extending the concept of chain geometry. (English summary) **2001k:51007**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001k:51007**
**Hotje, Herbert** (*with* Iden, Oddvar) On non-projective free Benz planes. **2001g:51003**
**Iden, Oddvar** *see* **Hotje, Herbert, 2001g:51003**

Items with secondary classifications in 51B05

**Bálint, Vojtech** (*with* Branická, Mária; Grešák, Pavol; Novotný, Pavel; Stacho, Milan) Realizability of combinatorial $(r, q)$-structures in the geometrical models. (English summary) **2001c:05014**
**Blunck, Andrea** (*with* Havlicek, Hans) Projective representations. I. Projective lines over rings. (English summary) **2001m:51005**
— (*with* Havlicek, Hans) Projective representations. II. Generalized chain geometries. (English summary) **2001m:51006**
**Branická, Mária** *see* **Bálint, Vojtech et al., 2001c:05014**
**Grešák, Pavol** *see* **Bálint, Vojtech et al., 2001c:05014**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001m:51005** *and* **2001m:51006**
**Novotný, Pavel** *see* **Bálint, Vojtech et al., 2001c:05014**
**Stacho, Milan** *see* **Bálint, Vojtech et al., 2001c:05014**

## 51B10 Möbius geometries

**Li, Hongbo** Doing geometric research with Clifford algebra. (English summary) **2001f:51007**
**Rinaldi, Gloria** Inversive planes, Minkowski planes and regular sets of points. (English summary) **2001m:51003**
**Tölke, Jürgen** Ein konkretes Beispiel zu den symmetrischen Möbius-Zwangläufen. (English summary) [A concrete example for the symmetric constrained Möbius motions] **2001d:51005**

Items with secondary classifications in 51B10

**Birman, Graciela S.** (*with* Ungar, Abraham A.) The hyperbolic derivative in the Poincaré ball model of hyperbolic geometry. (English summary) **2001i:51023**
**Hotje, Herbert** (*with* Iden, Oddvar) On non-projective free Benz planes. **2001g:51003**
**Iden, Oddvar** *see* **Hotje, Herbert, 2001g:51003**
**Meinl, Gert** *see* **Weiss, Gunter[1] et al., 2001f:53029**
**Nestler, Karla** *see* **Weiss, Gunter[1] et al., 2001f:53029**
**Polster, Burkard** Squaring the triangle. (English summary) **2001k:51021**
**Ungar, Abraham A.** *see* **Birman, Graciela S., 2001i:51023**
**Weiss, Gunter[1]** (*with* Nestler, Karla; Meinl, Gert) Some Moebius-geometric theorems connected to Euclidean kinematics. (English summary) **2001f:53029**

## 51B15 Laguerre geometries

**Steinke, Günter F.** A classification of 2-dimensional Laguerre planes admitting 3-dimensional groups of automorphisms in the kernel. (English summary) **2001m:51004**

Items with secondary classifications in 51B15

**Bisi, Cinzia** (*with* Rinaldi, Gloria) Arcs in Laguerre planes. (English summary) **2001k:51013**
**Polster, Burkard** Squaring the triangle. (English summary) **2001k:51021**
**Rinaldi, Gloria** *see* **Bisi, Cinzia, 2001k:51013**
**Schroth, Andreas E.** Compact generalised quadrangles with parameter 1 and large group of automorphisms. (English summary) **2001j:51017**
**Spera, Antonino Giorgio** Divisible designs associated with translation planes admitting a 2-transitive collineation group on the points at infinity. (English summary) **2001a:05032**
**Steinke, Günter F.** Finite Laguerre near-planes of odd order admitting Desarguesian derivations. (English summary) **2001e:51010**

## 51B20 Minkowski geometries

**Benz, Walter** Einstein distances in Hilbert spaces. **2001f:51008**

Items with secondary classifications in 51B20

**Benz, Walter** Lorentz-Minkowski distances in Hilbert spaces. (English summary) **2001e:46032**
**Li, Hongbo** Doing geometric research with Clifford algebra. (English summary) **2001f:51007**
**Rinaldi, Gloria** Inversive planes, Minkowski planes and regular sets of points. (English summary) **2001m:51003**

## 51B25 Lie geometries

**Dymara, Jan** Duality for curves in affine plane geometry. (English summary) **2001b:51006**

Items with secondary classifications in 51B25

**Huang, Wen-Ling** On the fundamental theorems of the geometries of symmetric matrices. (English summary) **2001b:51005**

## 51B99 None of the above, but in this section

Items with secondary classifications in 51B99

**Johnson, Norman Lloyd[1]** New and old results on flocks of circle planes. **2001b:51004**

# 51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

**Blunck, Andrea** (*with* Havlicek, Hans) Projective representations. I. Projective lines over rings. (English summary) **2001m:51005**
— (*with* Havlicek, Hans) Projective representations. II. Generalized chain geometries. (English summary) **2001m:51006**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001m:51005** *and* **2001m:51006**
**Rostomashvili, Z.** Remark to the projective geometry over rings and corresponding lattices. (English summary)

Items with secondary classifications in 51C05

**Blunck, Andrea** (*with* Havlicek, Hans) Extending the concept of chain geometry. (English summary) **2001k:51007**
**Greferath, Marcus** On Artinian and Noetherian projective lattice geometries. (English summary) **2001f:06017**
**Havlicek, Hans** *see* **Blunck, Andrea, 2001k:51007**
**Jukl, Marek** Galois triangle theory for certain free modules. (English summary) **2001m:13014**
**Rostomashvili, Z.** Pappus axiom in modular $D$-geometrical lattices. (English summary)

# 51Dxx Geometric closure systems

## 51D10 Abstract geometries with exchange axiom

**Scafati Tallini, Maria** (*with* Tallini, Giuseppe) On the meaning of dimension in a geometric structure. (English summary) **2001h:51006**
**Tallini, Giuseppe** *see* **Scafati Tallini, Maria, 2001h:51006**

Items with secondary classifications in 51D10

**Dogaru, Oltin** (*with* Doroftei, Mona; Țevy, I.; Dogaru, Vlad) Abstract linear dependence. (English summary) **2001a:15002**
**Dogaru, Vlad** *see* **Dogaru, Oltin et al., 2001a:15002**
**Doroftei, Mona** *see* **Dogaru, Oltin et al., 2001a:15002**
**Țevy, I.** *see* **Dogaru, Oltin et al., 2001a:15002**

## 51D15 Abstract geometries with parallelism

Items with secondary classifications in 51D15

**Dudek, Wiesław A.** (*with* Stojaković, Zoran) On Rusakov's $n$-ary $rs$-groups. (English summary)
**Pasini, Antonio** (*with* Pica, Giustina) Wrapping polygons in polygons. (English summary) **2001f:51020**
**Pica, Giustina** *see* **Pasini, Antonio, 2001f:51020**
**Stojaković, Zoran** *see* **Dudek, Wiesław A.**

## 51D20 Combinatorial geometries [see also 05B25, 05B35]

Items with secondary classifications in 51D20

**Borovik, Alexandre V.** (*with* Gel'fand, Izrail' Moiseevich; White, Neil) Combinatorial flag varieties. **2001m:52019**
**Cordovil, Raul** (*with* Duchet, Pierre) Cyclic polytopes and oriented matroids. (English summary) **2001g:52020**
**Crapo, Henry** (*with* Schmitt, William R.) The Whitney algebra of a matroid. **2001m:05076**
**Duchet, Pierre** *see* **Cordovil, Raul, 2001g:52020**
**Fern, Lori** (*with* Gordon, Gary; Leasure, Jason; Pronchik, Sharon) Matroid automorphisms and symmetry groups. (English summary) **2001g:05034**
**Gel'fand, Izrail' Moiseevich** *see* **Borovik, Alexandre V. et al., 2001m:52019**
**Gordon, Gary** *see* **Fern, Lori et al., 2001g:05034**
**Kung, Joseph P. S.** On the lines-planes inequality for matroids. **2001i:05050**
**Leasure, Jason** *see* **Fern, Lori et al., 2001g:05034**
**Pronchik, Sharon** *see* **Fern, Lori et al., 2001g:05034**
**Schmitt, William R.** *see* **Crapo, Henry, 2001m:05076**
**White, Neil** *see* **Borovik, Alexandre V. et al., 2001m:52019**

## 51D25 Lattices of subspaces [see also 05B35]

Items with secondary classifications in 51D25

**Dugas, Manfred** (*with* Göbel, Rüdiger) Automorphism groups of geometric lattices. (English summary) **2001k:06013**
**Göbel, Rüdiger** *see* **Dugas, Manfred, 2001k:06013**
**Greferath, Marcus** On Artinian and Noetherian projective lattice geometries. (English summary) **2001f:06017**
**Kung, Joseph P. S.** On the lines-planes inequality for matroids. **2001i:05050**

## 51D99 None of the above, but in this section

Items with secondary classifications in 51D99

**Gehrke, Wolfgang** (*with* Pfalzgraf, Jochen[2]) Computer-aided construction of finite geometric spaces: automated verification of geometric constraints. (English summary) **2001i:51018**
**Pfalzgraf, Jochen[2]** *see* **Gehrke, Wolfgang, 2001i:51018**

# 51Exx Finite geometry and special incidence structures

## 51E05 General block designs [see also 05B05]

**Stoichev, Stoicho D.** (*with* Tonchev, Vladimir D.) Unital designs in planes of order 16. (English summary) **2001a:51003**
**Tonchev, Vladimir D.** *see* **Stoichev, Stoicho D., 2001a:51003**

Items with secondary classifications in 51E05

**Božikov, Zdravka** A new symmetric design with parameters (176, 50, 14). (English summary) **2001d:05013**
**Furino, Steven** *see* **Vasiga, Troy M. J. et al., 2001i:05031**
**Guo, Zhi Fen** (*with* Liu, Cai Kun) Self-converse Mendelsohn designs with block size $6q$. I. (Chinese. English and Chinese summaries)
— *see also* **Liu, Cai Kun et al., 2001d:05016**
**Hartmann, Sven** On simple and supersimple transversal designs. (English summary) **2001d:05025**
**Houghten, S. K.** (*with* Thiel, L. H.; Janssen, Jeannette C. M.; Lam, C. W. H.) There is no (46, 6, 1) block design. (English summary) **2001j:05024**
**Janko, Zvonimir** (*with* Kharaghani, Hadi; Tonchev, Vladimir D.) Bush-type Hadamard matrices and symmetric designs. (English summary) **2001j:05032**
**Janssen, Jeannette C. M.** *see* **Houghten, S. K. et al., 2001j:05024**
**Jungnickel, Dieter** (*with* Pott, Alexander) Difference sets: an introduction. (English summary) **2001b:05040**
**Kang, Qing-de** *see* **Liu, Cai Kun et al., 2001d:05016**
**Kharaghani, Hadi** *see* **Janko, Zvonimir et al., 2001j:05032**
**Lam, C. W. H.** *see* **Houghten, S. K. et al., 2001j:05024**
**Ling, Alan C. H.** *see* **Vasiga, Troy M. J. et al., 2001i:05031**
**Liu, Cai Kun** (*with* Guo, Zhi Fen; Kang, Qing-de) Some results for cycle system with block size $6q$. (English summary) **2001d:05016**
— (*with* Guo, Zhi Fen) Self-converse Mendelsohn designs with block size $6q$. II. (Chinese. English and Chinese summaries)
— *see also* **Guo, Zhi Fen**
**Liu, Ji Bo** *see* **Liu, Shu Dan**
**Liu, Shu Dan** (*with* Liu, Ji Bo) Construction of association schemes and PBIB designs by affine unitary geometry. (Chinese. English and Chinese summaries)
**Mavron, Vassili C.** (*with* Tonchev, Vladimir D.) On symmetric nets and generalized Hadamard matrices from affine designs. (English summary) **2001c:05034**
**Noda, Ryuzaburo** Some bounds for the number of blocks. I, II. (English summary) **2001j:05027**
**Pott, Alexander** *see* **Jungnickel, Dieter, 2001b:05040**
**Rees, Rolf S.** Group-divisible designs with block size $k$ having $k+1$ groups, for $k = 4, 5$. (English summary) **2001k:05037**
**Sebille, Michel** There exists a simple non trivial $t$-design with an arbitrarily large automorphism group for every $t$. (English summary) **2001m:05045**
**Stanton, Ralph G.** A survey of minimal clique covers. (English summary) **2001d:05019**
**Thiel, L. H.** *see* **Houghten, S. K. et al., 2001j:05024**
**Tonchev, Vladimir D.** *see* **Mavron, Vassili C., 2001c:05034** *and* **Janko, Zvonimir et al., 2001j:05032**
**Vasiga, Troy M. J.** (*with* Furino, Steven; Ling, Alan C. H.) The spectrum of $\alpha$-resolvable designs with block size four. (English summary) **2001i:05031**

## 51E10 Steiner systems

**Betten, Anton** (*with* Laue, Reinhard; Molodtsov, Sergey; Wassermann, Alfred) Steiner systems with automorphism groups PSL(2, 71), PSL(2, 83), and P$\Sigma$L$(2, 3^5)$. (English summary) **2001d:51006**
**Laue, Reinhard** *see* **Betten, Anton et al., 2001d:51006**
**Molodtsov, Sergey** *see* **Betten, Anton et al., 2001d:51006**
**Wassermann, Alfred** *see* **Betten, Anton et al., 2001d:51006**

Items with secondary classifications in 51E10

**Asratyan, A. S.** (*with* Kuzyurin, N. N.) On the number of partial Steiner systems. (English summary) **2001d:05011**
**Buratti, Marco** (*with* Zuanni, Fulvio) Addendum to: "$G$-invariantly resolvable Steiner 2-designs which are 1-rotational over $G$" [Bull. Belg. Math. Soc. Simon Stevin **5** (1998), no. 2-3, 221–235; MR 99k:05026]. **2001k:05048**
**De Clerck, Frank** (*with* Delanote, Mario) Two-weight codes, partial geometries and Steiner systems. (English summary) **2001k:05048**
**Delanote, Mario** *see* **De Clerck, Frank, 2001k:05048**
**Drudge, Keldon** Tactical decompositions of Steiner systems and orbits of projective groups. (English summary) **2001m:05031**
**Gentile, Giuseppe** A hypergroupal characterization of projective planes. (English summary) **2001g:20087**
**Kuzyurin, N. N.** *see* **Asratyan, A. S., 2001d:05011**
**Scafati Tallini, Maria** Study of classical subsets in a semilinear space. (Italian. English summary) **2001d:51001**
**Shen, Hao** Intersections of Kirkman triple systems. (English summary) **2001m:05051**
**Zuanni, Fulvio** *see* **Buratti, Marco**

## 51E12 Generalized quadrangles, generalized polygons

**Brown, Matthew R.** (*with* O'Keefe, Christine M.; Penttila, Tim) Triads, flocks of conics and $Q^-(5, q)$. (English summary) **2001h:51007**
**De Bruyn, Bart** On near hexagons and spreads of generalized quadrangles. (English summary) **2001f:51009**
**Govaert, Eline** (*with* Van Maldeghem, Hendrik) Two remarks on generalized hexagons. (English summary) **2001e:51003**
— (*with* Van Maldeghem, Hendrik) Some combinatorial and geometric characterizations of the finite dual classical generalized hexagons. (English summary) **2001k:51008**
**Kocay, William** *see* **Stanton, Ralph G., 2001j:51007**
**Kramer, Linus** Compact ovoids in quadrangles. II. The classical quadrangles. (English summary) **2001b:51007**
— Compact ovoids in quadrangles. III. Clifford algebras and isoparametric hypersurfaces. (English summary) **2001h:51008**
**Ng, Siaw-Lynn** (*with* Wild, Peter R.) A new family of extended generalized quadrangles of order $(q+1, q-1)$. (English summary) **2001j:51006**
**O'Keefe, Christine M.** (*with* Penttila, Tim) Characterisations of flock quadrangles. (English summary) **2001h:51009**
— *see also* **Brown, Matthew R. et al., 2001h:51007**
**Penttila, Tim** (*with* Williams, Blair) Ovoids of parabolic spaces. (English summary) **2001i:51005**
— *see also* **Brown, Matthew R. et al., 2001h:51007** *and* **O'Keefe, Christine M., 2001h:51009**
**Pogány, T. K.** (*with* Radić, M.) On $(k, f, l)$-chordal polygons. (English summary) **2001k:51009**
**Polito, Pompeo** The flock derivation in $T_2(\bar{e})$. (English summary) **2001k:51010**
**Radić, M.** *see* **Pogány, T. K., 2001k:51009**
**Schroth, Andreas E.** The point space of compact generalized quadrangles with parameter 1. (English summary) **2001f:51010**
**Stanton, Ralph G.** (*with* Kocay, William) Fano quads in projective planes. (English summary) **2001j:51007**
**Steinbach, Anja** (*with* Van Maldeghem, Hendrik) Generalized quadrangles weakly embedded of degree 2 in projective space. (English summary) **2001b:51008**

**Tent, Katrin** Very homogeneous generalized $n$-gons of finite Morley rank. (English summary) **2001f:51011**
— A note on the model theory of generalized polygons. (English summary) **2001f:51012**
**Thas, Joseph A.** (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. I. (English summary) **2001d:51007a**
— (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. III. (English summary) **2001d:51007c**
— (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. II. (English summary) **2001d:51007b**
**Van Maldeghem, Hendrik** An elementary construction of the split Cayley hexagon $H(2)$. (English summary) **2001m:51007**
— Distance transitive generalized quadrangles of prime order. (English summary) **2001j:51008**
— *see also* **Steinbach, Anja, 2001b:51008**; **Thas, Joseph A., 2001d:51007a**; **2001d:51007b**; **2001d:51007c**; **Govaert, Eline, 2001e:51003** *and* **2001k:51008**
**Wild, Peter R.** *see* **Ng, Siaw-Lynn, 2001j:51006**
**Williams, Blair** *see* **Penttila, Tim, 2001i:51005**

Items with secondary classifications in 51E12

**Abramenko, Peter** (*with* Van Maldeghem, Hendrik) On opposition in spherical buildings and twin buildings. (English summary) **2001m:51016**
**Biller, Harald** Actions of compact groups on compact $(4, m)$-quadrangles. (English summary) **2001m:51021**
**Blokhuis, Aart** (*with* Sziklai, Péter) On planes of order $p^2$ in which every quadrangle generates a subplane of order $p$. (English summary) **2001e:51002**
**Brown, Matthew R.** Ovoids of PG$(3, q)$, $q$ even, with a conic section. (English summary) **2001i:51012**
**Cooperstein, Bruce N.** On the generation of some embeddable GF(2) geometries. (English summary) **2001m:51002**
**Grundhöfer, Theo** (*with* Knarr, Norbert; Kramer, Linus) Flag-homogeneous compact connected polygons. II. (English summary) **2001m:51022**
**Joswig, Michael** Compact connected translation generalized quadrangles. (English summary) **2001i:51019**
**Knarr, Norbert** *see* **Grundhöfer, Theo et al., 2001m:51022**
**Kramer, Linus** *see* **Grundhöfer, Theo et al., 2001m:51022**
**Schroth, Andreas E.** Compact generalised quadrangles with parameter 1 and large group of automorphisms. (English summary) **2001j:51017**
**Sziklai, Péter** *see* **Blokhuis, Aart, 2001e:51002**
**Tent, Katrin** Generalized polygons with split Levi factors. (English summary) **2001k:20064**
**Van Maldeghem, Hendrik** *see* **Abramenko, Peter, 2001m:51016**
**Yoshiara, Satoshi** A family of $d$-dimensional dual hyperovals in PG$(2d + 1, 2)$. (English summary) **2001b:51016**
— On a family of planes of a polar space. (English summary) **2001m:51011**

## 51E14 Finite partial geometries (general), nets, partial spreads

**De Clerck, Frank** (*with* Delanote, Mario) Partial geometries and the triality quadric. (English summary) **2001i:51006**
**Delanote, Mario** *see* **De Clerck, Frank, 2001i:51006**
**El-Atrash, Mohammed** $m$-systems in some parapolar spaces. (English summary) **2001e:51004**
**Heden, Olof** Maximal partial spreads in PG$(3, 5)$. (English summary) **2001i:51007**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Almost Desarguesian maximal partial spreads. (English summary) **2001m:51008**
**Johnson, Norman Lloyd[1]** ★ Subplane covered nets. (English summary) **2001h:51010**
— *see also* **Jha, Vikram, 2001m:51008**
**Kravtsova, O. V.** A semifield plane of rank 2 that admits a nonlinear Baire involution. (Russian. English and Russian summaries) **2001h:51011**
**Metsch, Klaus** (*with* Storme, Leo) Partial $t$-spreads in PG$(2t + 1, q)$. (English summary) **2001b:51009**
**Panigrahi, Pratima** The diameters graph of the root system $E_8$ is uniquely geometrisable. (English summary) **2001b:51010**
**Shaw, Ron** Subsets of PG$(n, 2)$ and maximal partial spreads in PG$(4, 2)$. (English summary) **2001j:51009**
**Storme, Leo** *see* **Metsch, Klaus, 2001b:51009**

Items with secondary classifications in 51E14

**Drudge, Keldon** Tactical decompositions of Steiner systems and orbits of projective groups. (English summary) **2001m:05031**
**Johnson, Norman Lloyd[1]** Desarguesian partial parallelisms. (English summary) **2001k:51004**

## 51E15 Affine and projective planes

**Biliotti, Mauro** (*with* Francot, Eliana) Parameters for sets of type $(m, n)$ in projective planes of prime power order. (English summary) **2001b:51011**
— (*with* Johnson, Norman Lloyd[1]) The non-solvable rank 3 affine planes. (English summary) **2001j:51010**
**Busarkina, I. V.** Some 2-properties of the autopism group of a $p$-primitive semifield plane. (Russian. Russian summary) **2001m:51009**
— *see also* **Podufalov, N. D. et al., 2001h:51014**
**Charnes, Chris** (*with* Dempwolff, Ulrich) The eight-dimensional ovoids over GF(5). (English summary) **2001g:51004**
**Dempwolff, Ulrich** *see* **Charnes, Chris, 2001g:51004**
**Durakov, B. K.** *see* **Podufalov, N. D. et al., 2001h:51014**
**Durakov, E. B.** *see* **Podufalov, N. D. et al., 2001h:51014**
**Ferri, Osvaldo** (*with* Ferri, Stefania; Giallonardo, Antonella) On the quadric elliptic cones in a Galois projective space. (English summary)
**Ferri, Stefania** *see* **Ferri, Osvaldo et al.**
**Francot, Eliana** *see* **Biliotti, Mauro, 2001b:51011**
**Ganley, Michael J.** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) The translation planes admitting a nonsolvable doubly transitive line-sized orbit. (English summary) **2001h:51012**
**Giallonardo, Antonella** *see* **Ferri, Osvaldo et al.**
**Gonçalves, Adilson** (*with* Ho, Chat Yin) Alternating groups as collineation groups. **2001a:51004**
**Gottschalk, Harald** On the geometry of Baer subplanes in PG$(2, 4)$. (English summary) **2001i:51008**
**Günaltılı, İbrahim** (*with* Olgun, Şükrü) On the embedding of some linear spaces in finite projective planes. (English summary) **2001i:51009**
**Hiramine, Yutaka** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Characterization of translation planes by orbit lengths. (English summary) **2001b:51012**
— (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Solvable extensions of flag-transitive planes. (English summary) **2001k:51011**
— (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Characterization of translation planes by orbit lengths. II. Even order. (English summary) **2001h:51013**
**Ho, Chat Yin** Incidence matrices and collineations of finite projective planes. **2001a:51005**
— *see also* **Gonçalves, Adilson, 2001a:51004**
**Jha, Vikram** *see* **Hiramine, Yutaka et al., 2001b:51012**; **2001h:51013**; **2001k:51011** *and* **Ganley, Michael J. et al., 2001h:51012**
**Johnson, Norman Lloyd[1]** *see* **Hiramine, Yutaka et al., 2001b:51012**; **2001h:51013**; **2001k:51011**; **Ganley, Michael J. et al., 2001h:51012** *and* **Biliotti, Mauro, 2001j:51010**
**Kestenband, Barbu C.** The correlations with identity companion automorphism, of finite Desarguesian planes. (English summary) **2001g:51005**
**Kiss, György** (*with* Malnič, Aleksander) Ovals in finite projective planes. (Slovenian. English and Slovenian summaries)
**Kravtsova, O. V.** *see* **Podufalov, N. D. et al., 2001h:51014**
**Maharjan, Hira B.** On the existence of Desarguesian planes of order 8 satisfying a condition of Suetake. (English summary) **2001e:51005**
**Malnič, Aleksander** *see* **Kiss, György**
**McQuillan, James M.** Pencils of hyperconics in projective planes of characteristic two. (English summary) **2001b:51013**
**Morgan, Ilene H.** Affine geometries and sets of equiorthogonal frequency hypercubes. (English summary) **2001i:51010**
**Olgun, Şükrü** *see* **Günaltılı, İbrahim, 2001i:51009**
**Podufalov, N. D.** (*with* Durakov, B. K.; Busarkina, I. V.; Kravtsova, O. V.; Durakov, E. B.) Some results on finite projective planes. **2001h:51014**
**Prince, Alan R.** Flag-transitive affine planes of order 64. (English summary) **2001a:51006**
— Flag-transitive affine planes of order at most 125. (English summary) **2001f:51013**
**Russeva, Assia P.** On the subplanes of the Hughes planes of odd square prime order. (English summary) **2001h:51015**
**Suetake, Chihiro** On projective planes of order 15 admitting a collineation of order 7. (English summary) **2001g:51006**
**Taniguchi, Hiroaki** A note on embeddings of projective spaces. (English summary) **2001m:51010**

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**Ballico, Edoardo** (*with* Cossidente, Antonio) Curves of the projective 3-space, tangent developables and partial spreads. **2001j:51022**
**Bennett, Geoffrey Keith** (*with* Grannell, M. J.; Griggs, Terry S.) Bi-embeddings of the projective space PG$(3, 2)$. (English summary) **2001b:05049**
**Biliotti, Mauro** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) The collineation groups of generalized twisted field planes. (English summary) **2001d:51003**
**Blokhuis, Aart** (*with* Sziklai, Péter) On planes of order $p^2$ in which every quadrangle generates a subplane of order $p$. (English summary) **2001e:51002**
**Cossidente, Antonio** *see* **Ballico, Edoardo, 2001j:51022**
**De Clerck, Frank** (*with* Hamilton, Nicholas; O'Keefe, Christine M.; Penttila, Tim) Quasi-quadrics and related structures. (English summary) **2001i:05046**
**Dempwolff, Ulrich** (*with* Guthmann, Andreas) Applications of number theory to ovoids and translation planes. (English summary) **2001h:51004**
**Feng, Rongquan** (*with* Kwak, Jin Ho) A construction of authentication codes with perfect secrecy from geometry of classical groups. (English summary) **2001a:94030**
**Fiori, Carla** *see* **Pellegrino, Consolato, (2001j:00033)**
**Francot, Eliana** Ovals with 2-transitive groups fixing a point. **2001i:51014**
**Freni Casale, Sveva** Spreads in finite linear spaces. (Italian. English summary) **2001e:51009**
— Quasiparallel lines in finite linear spaces. **2001d:51004**
— Linear spaces with a family of mutually intersecting lines. (English summary) **2001i:51002**
**Gentile, Giuseppe** A hypergroupal characterization of projective planes. (English summary) **2001g:20087**
**Grannell, M. J.** *see* **Bennett, Geoffrey Keith et al., 2001b:05049**
**Grasselli, Luigi** (*with* Mulazzani, Michele; Nedela, Roman) 2-symmetric transformations for 3-manifolds of genus 2. (English summary) **2001g:57046**
**Griggs, Terry S.** *see* **Bennett, Geoffrey Keith et al., 2001b:05049**
**Guthmann, Andreas** *see* **Dempwolff, Ulrich, 2001h:51004**
**Hamilton, Nicholas** *see* **De Clerck, Frank et al., 2001i:05046**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Infinite Baer nets. (English summary) **2001h:51003**
— *see also* **Biliotti, Mauro et al., 2001d:51003**
**Johnson, Norman Lloyd[1]** ★ Subplane covered nets. (English summary) **2001h:51010**
— Desarguesian partial parallelisms. (English summary) **2001k:51004**
— *see also* **Biliotti, Mauro et al., 2001d:51003** *and* **Jha, Vikram, 2001h:51003**
**Kiss, György** (*with* Malnič, Aleksander) Finite projective planes. (Slovenian. English and Slovenian summaries)
**Kwak, Jin Ho** *see* **Feng, Rongquan, 2001a:94030**
**Lloyd, E. Keith** Some graphs associated with the seven point plane. (English summary) **2001f:05117**

**Lo Re, P. M.** (*with* Olanda, Domenico) Planar spaces with invisible planes. (English summary) **2001k:51006**
**Malnič, Aleksander** *see* **Kiss, György**
**Mulazzani, Michele** *see* **Grasselli, Luigi et al., 2001g:57046**
**Nedela, Roman** *see* **Grasselli, Luigi et al., 2001g:57046**
**O'Keefe, Christine M.** (*with* Penttila, Tim) Characterisations of flock quadrangles. (English summary) **2001h:51009**
— *see also* **De Clerck, Frank et al., 2001i:05046**
**Olanda, Domenico** *see* **Lo Re, P. M., 2001k:51006**
**Oryszczyszyn, Henryk** (*with* Prażmowski, Krzysztof) On projections in spaces of pencils. (English summary) **2001a:51001**
**Pellegrino, Consolato** (*with* Fiori, Carla) Formally Euclidean planes. (Italian. English summary) (*see* **2001j:00033**)
**Penttila, Tim** *see* **O'Keefe, Christine M., 2001h:51009** *and* **De Clerck, Frank et al., 2001i:05046**
**Prażmowski, Krzysztof** *see* **Oryszczyszyn, Henryk, 2001a:51001**
**Sin, Peter** The elementary divisors of the incidence matrices of points and linear subspaces in $\mathbf{P}^n(\mathbf{F}_p)$. (English summary) **2001g:20060**
**Suetake, Chihiro** Projective planes and Hadamard designs. (English summary) **2001m:05067**
**Sziklai, Péter** *see* **Blokhuis, Aart, 2001e:51002**
**Wene, G. P.** Finite semifields three-dimensional over the left nuclei. **2001g:17004**

## 51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

**Barwick, S. G.** (*with* Casse, L. R. A.; Quinn, Catherine T.) The André/Bruck and Bose representation in PG($2h, q$): unitals and Baer subplanes. (English summary) **2001g:51007**
— (*with* O'Keefe, Christine M.; Storme, Leo) Unitals which meet Baer subplanes in 1 modulo $q$ points. (English summary) **2001i:51011**
**Bonin, Joseph E.** (*with* Miller, William P.) Characterizing combinatorial geometries by numerical invariants. (English summary) **2001a:51007**
**Brown, Matthew R.** Ovoids of PG$(3, q)$, $q$ even, with a conic section. (English summary) **2001i:51012**
**Casse, L. R. A.** *see* **Barwick, S. G. et al., 2001g:51007**
**Chen, Hegang** The maximum number of lines contained in subsets of PG$(k, 2)$. (English summary) **2001j:51011**
**Del Fra, Alberto** On $d$-dimensional dual hyperovals. (English summary) **2001f:51014**
**Di Monte, Rossella** (*with* Ferri, Osvaldo; Ferri, Stefania) A new graphic characterization of non singular quadrics of PG$(r, q)$. (English summary) **2001h:51016**
**Dover, Jeremy M.** Semiovals with large collinear subsets. (English summary) **2001k:51012**
**Drudge, Keldon** Proper 2-covers of PG$(3, q)$, $q$ even. (English summary) **2001g:51008**
**Ferri, Osvaldo** (*with* Ferri, Stefania; Innamorati, Stefano) A combinatorial characterization of quadrics. (English summary) **2001j:51012**
— *see also* **Di Monte, Rossella et al., 2001h:51016**
**Ferri, Stefania** *see* **Di Monte, Rossella et al., 2001h:51016** *and* **Ferri, Osvaldo et al., 2001j:51012**
**Hamilton, Nicholas** (*with* Quinn, Catherine T.) $m$-systems of polar spaces and maximal arcs in projective planes. (English summary) **2001d:51008**
**Innamorati, Stefano** *see* **Ferri, Osvaldo et al., 2001j:51012**
**Kiss, György** Generalized cotangency sets in projective spaces. (English summary) **2001e:51006**
**Miller, William P.** *see* **Bonin, Joseph E., 2001a:51007**
**O'Keefe, Christine M.** *see* **Barwick, S. G. et al., 2001i:51011**
**Quinn, Catherine T.** *see* **Hamilton, Nicholas, 2001d:51008** *and* **Barwick, S. G. et al., 2001g:51007**
**Storme, Leo** *see* **Barwick, S. G. et al., 2001i:51011**
**Yoshiara, Satoshi** On a family of planes of a polar space. (English summary) **2001m:51011**

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**Ball, Simeon** *see* **Blokhuis, Aart, 2001m:51012**
**Ballico, Edoardo** (*with* Cossidente, Antonio) Osculating subspaces, normal rational curves and generalized strange curves. **2001m:14045**
**Blokhuis, Aart** (*with* Ball, Simeon) Polynomials in finite geometry. **2001m:51012**
**Bonin, Joseph E.** (*with* Qin, Hongxun) Size functions of subgeometry-closed classes of representable combinatorial geometries. (English summary) **2001g:05031**
**Brown, Julia M. N.** (*with* Cherowitzo, William E.) The Lunelli-Sce hyperoval in PG(2, 16). (English summary) **2001m:51013**
**Brown, Matthew R.** (*with* O'Keefe, Christine M.; Penttila, Tim) Triads, flocks of conics and $Q^-(5, q)$. (English summary) **2001h:51007**
**Charnes, Chris** (*with* Dempwolff, Ulrich) The eight-dimensional ovoids over GF(5). (English summary) **2001g:51004**
**Cherowitzo, William E.** *see* **Brown, Julia M. N., 2001m:51013**
**Cossidente, Antonio** *see* **Ballico, Edoardo, 2001m:14045**
**Dempwolff, Ulrich** *see* **Charnes, Chris, 2001g:51004**
**Dress, Andreas W. M.** The theorem of the $k-1$ happy divorces. (English summary) **2001b:05004**
**Freni Casale, Sveva** Linear spaces with a family of mutually intersecting lines. (English summary) **2001i:51002**
**Glynn, David G.** On the representation of configurations in projective spaces. **2001f:51005**
**Greig, Malcolm** Finite linear spaces. I. (English summary) **2001b:05050**
**Homma, Masaaki[2]** (*with* Kim, Seon Jeong; Yoo, Mi Ja) Projective systems supported on the complement of two linear subspaces. (English summary) **2001i:94071**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Almost Desarguesian maximal partial spreads. (English summary) **2001m:51008**
**Johnson, Norman Lloyd[1]** New and old results on flocks of circle planes. **2001b:51004**
— ★ Subplane covered nets. (English summary) **2001h:51010**
— *see also* **Jha, Vikram, 2001m:51008**
**Kim, Seon Jeong** *see* **Homma, Masaaki[2] et al., 2001i:94071**
**Kordecki, Wojciech** On the rank of random subsets of finite affine geometry. (English summary) **2001m:05068**
**Li, Li[4]** *see* **You, Hong, 2001a:94033**
**O'Keefe, Christine M.** (*with* Penttila, Tim) Characterisations of flock quadrangles. (English summary) **2001h:51009**
— *see also* **Brown, Matthew R. et al., 2001h:51007**
**Penttila, Tim** (*with* Williams, Blair) Ovoids of parabolic spaces. (English summary) **2001i:51005**
— *see also* **Brown, Matthew R. et al., 2001h:51007** *and* **O'Keefe, Christine M., 2001h:51009**
**Qin, Hongxun** *see* **Bonin, Joseph E., 2001g:05031**
**Stoichev, Stoicho D.** (*with* Tonchev, Vladimir D.) Unital designs in planes of order 16. (English summary) **2001a:51003**
**Thas, Joseph A.** (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. I. (English summary) **2001d:51007a**
— (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. III. (English summary) **2001d:51007c**
— (*with* Van Maldeghem, Hendrik) Classification of embeddings of the flag geometries of projective planes in finite projective spaces. II. (English summary) **2001d:51007b**
**Tonchev, Vladimir D.** *see* **Stoichev, Stoicho D., 2001a:51003**
**Van Maldeghem, Hendrik** An elementary construction of the split Cayley hexagon $H(2)$. (English summary) **2001m:51007**
— *see also* **Thas, Joseph A., 2001d:51007a**; **2001d:51007b** *and* **2001d:51007c**
**Williams, Blair** *see* **Penttila, Tim, 2001i:51005**
**Yoo, Mi Ja** *see* **Homma, Masaaki[2] et al., 2001i:94071**
**You, Hong** (*with* Li, Li[4]) Construction of Cartesian authentication codes from pseudo symplectic geometry of even dimension. (English summary) **2001a:94033**

## 51E21 Blocking sets, ovals, $k$-arcs

**Ball, Simeon** On intersection sets in Desarguesian affine spaces. (English summary) **2001c:51002**
— (*with* Blokhuis, Aart; Lavrauw, Michel) Linear $(q+1)$-fold blocking sets in PG$(2, q^4)$. (English summary) **2001i:51013**
— *see also* **Blokhuis, Aart, 2001m:51012**
**Biliotti, Mauro** (*with* Francot, Eliana) Blocking sets of type $(1, k)$ in a finite projective plane. (English summary) **2001c:51003**
**Bisi, Cinzia** (*with* Rinaldi, Gloria) Arcs in Laguerre planes. (English summary) **2001k:51013**
**Blokhuis, Aart** (*with* Ball, Simeon) Polynomials in finite geometry. **2001m:51012**
— *see also* **Ball, Simeon et al., 2001i:51013**
**Brown, Julia M. N.** (*with* Cherowitzo, William E.) The Lunelli-Sce hyperoval in PG(2, 16). (English summary) **2001m:51013**
**Brown, Matthew R.** The determination of ovoids of PG$(3, q)$ containing a pointed conic. (English summary) **2001h:51017**
**Cassetta, Nicola** The non-existence of blocking sets in PG(3, 4). (English summary) **2001f:51015**
**Cherowitzo, William E.** *see* **Brown, Julia M. N., 2001m:51013**
**Dover, Jeremy M.** A lower bound on blocking semiovals. (English summary) **2001d:51009**
**Francot, Eliana** Ovals with 2-transitive groups fixing a point. **2001i:51014**
— *see also* **Biliotti, Mauro, 2001c:51003**
**Giulietti, Massimo** Small complete caps in PG$(2, q)$, for $q$ an odd square. (English summary) **2001k:51014**
**Gmainer, Johannes** (*with* Havlicek, Hans) Nuclei of normal rational curves. (English summary) **2001j:51013**
**Hamilton, Nicholas** (*with* Stoichev, Stoicho D.; Tonchev, Vladimir D.) Maximal arcs and disjoint maximal arcs in projective planes of order 16. (English summary) **2001g:51009**
— (*with* Penttila, Tim) Groups of maximal arcs. (English summary) **2001m:51014**
**Havlicek, Hans** *see* **Gmainer, Johannes, 2001j:51013**
**Lavrauw, Michel** *see* **Ball, Simeon et al., 2001i:51013**
**Lunardon, G.** (*with* Polverino, Olga) Blocking sets of size $q^t + q^{t-1} + 1$. (English summary) **2001f:51016**
**Metsch, Klaus** A Bose-Burton theorem for elliptic polar spaces. (English summary) **2001b:51014**
— (*with* Storme, Leo) 2-blocking sets in PG$(4, q)$, $q$ square. (English summary) **2001c:51004**
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**Pambianco, Fernanda** (*with* Ughi, Emanuela) A class of $k$-caps having $k-2$ points in common with an elliptic quadric and two points on an external line. (English summary) **2001a:51008**
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**Pinneri, Ivano** *see* **Penttila, Tim, 2001d:51010**
**Polverino, Olga** Small blocking sets in PG$(2, p^3)$. (English summary) **2001h:51018**
— *see also* **Lunardon, G., 2001f:51016**
**Rajola, Sandro** (*with* Scafati Tallini, Maria) Triangular projective planes of order $q$ and $(q+1)$-arcs. (English summary)
**Rinaldi, Gloria** *see* **Bisi, Cinzia, 2001k:51013**
**Scafati Tallini, Maria** *see* **Rajola, Sandro**
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**Storme, Leo** (*with* Weiner, Zs.) On 1-blocking sets in PG$(n, q)$, $n \geq 3$. (English summary) **2001j:51014**
— *see also* **Metsch, Klaus, 2001c:51004**
**Szőnyi, Tamás** On the embedding of $(k, p)$-arcs in maximal arcs. (English summary) **2001b:51015**
**Tonchev, Vladimir D.** *see* **Hamilton, Nicholas et al., 2001g:51009**
**Ughi, Emanuela** The values $\sqrt{2q}$ and $\log_2 q$: their relationship with $k$-arcs. (English summary) **2001i:51015**
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**Bao, Xiaomin** On the blocking sets in $S(3,6,22)$ and $S(4,7,23)$. (English summary) **2001a:05018**
**Brown, Matthew R.** Ovoids of PG$(3,q)$, $q$ even, with a conic section. (English summary) **2001i:51012**
**Bruen, Aiden A.** (*with* Colbourn, Charles J.) Transversal designs in classical planes and spaces. (English summary) **2001g:05029**
**Colbourn, Charles J.** *see* **Bruen, Aiden A., 2001g:05029**
**Di Monte, Rossella** (*with* Ferri, Osvaldo; Ferri, Stefania) A new graphic characterization of non singular quadrics of PG$(r,q)$. (English summary) **2001h:51016**
**Dover, Jeremy M.** Semiovals with large collinear subsets. (English summary) **2001k:51012**
**Evans, Ronald** (*with* Hollmann, Henk D. L.; Krattenthaler, Christian; Xiang, Qing) Gauss sums, Jacobi sums, and $p$-ranks of cyclic difference sets. (English summary) **2001b:05038**
**Ferri, Osvaldo** *see* **Di Monte, Rossella et al., 2001h:51016**
**Ferri, Stefania** *see* **Di Monte, Rossella et al., 2001h:51016**
**Giulietti, Massimo** Algebraic curves over finite fields and MAGMA. (Italian. Italian summary) **2001i:14082**
**Greig, Malcolm** Finite linear spaces. I. (English summary) **2001b:05050**
**Hamilton, Nicholas** (*with* Quinn, Catherine T.) $m$-systems of polar spaces and maximal arcs in projective planes. (English summary) **2001d:51008**
**Hollmann, Henk D. L.** *see* **Evans, Ronald et al., 2001b:05038**
**Kiss, György** (*with* Malnič, Aleksander) Ovals in finite projective planes. (Slovenian. English and Slovenian summaries)
**Korchmáros, G.** *see* **Aguglia, A., 2001i:11072**
**Krattenthaler, Christian** *see* **Evans, Ronald et al., 2001b:05038**
**Landgev, Ivan N.** Linear codes over finite fields and finite projective geometries. (English summary) **2001k:94067**
**Malnič, Aleksander** *see* **Kiss, György**
**Metsch, Klaus** (*with* Storme, Leo) Partial $t$-spreads in PG$(2t+1,q)$. (English summary) **2001b:51009**
**O'Keefe, Christine M.** (*with* Penttila, Tim) Characterisations of flock quadrangles. (English summary) **2001h:51009**
**Penttila, Tim** *see* **O'Keefe, Christine M., 2001h:51009**
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**Storme, Leo** *see* **Metsch, Klaus, 2001b:51009**
**Xiang, Qing** *see* **Evans, Ronald et al., 2001b:05038**

## 51E22 Linear codes and caps in Galois spaces [see also 94B05]

**Barát, János** *see* **Hill, Raymond et al., 2001e:51008**
**Bierbrauer, Jürgen** (*with* Cossidente, Antonio; Edel, Yves) Caps on classical varieties and their projections. (English summary) **2001m:51015**
**Bonisoli, Arrigo** (*with* Cossidente, Antonio) Mixed partitions of projective geometries. (English summary) **2001d:51011**
**Cossidente, Antonio** Caps embedded in the Klein quadric. **2001b:51017**
— (*with* King, O. H.) Transitive and co-transitive caps. **2001h:51019**
— *see also* **Bonisoli, Arrigo, 2001d:51011** *and* **Bierbrauer, Jürgen et al., 2001m:51015**
**Davydov, Aleksandr A.** (*with* Östergård, Patric R. J.) On saturating sets in small projective geometries. (English summary) **2001e:51007**
**Edel, Yves** *see* **Bierbrauer, Jürgen et al., 2001m:51015**
**Hill, Raymond** (*with* Landgev, Ivan N.; Jones, Chris; Storme, Leo; Barát, János) On complete caps in the projective geometries over $F_3$. (English summary) **2001e:51008**
**Jones, Chris** *see* **Hill, Raymond et al., 2001e:51008**
**King, O. H.** *see* **Cossidente, Antonio, 2001h:51019**
**Kiss, György** Illumination problems and codes. (English summary) **2001f:51017**
**Landgev, Ivan N.** *see* **Hill, Raymond et al., 2001e:51008**
**Östergård, Patric R. J.** *see* **Davydov, Aleksandr A., 2001e:51007**
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**Boyvalenkov, Peter** (*with* Danev, Danyo; Mitradjieva, Maria) Linear programming bounds for codes in infinite projective spaces. (English summary) **2001d:94044**
— (*with* Danev, Danyo; Kazakov, Peter) Indexes of spherical codes. (English summary) **2001m:05071**
**Brown, Matthew R.** The determination of ovoids of PG$(3,q)$ containing a pointed conic. (English summary) **2001h:51017**
**Bruen, Aiden A.** (*with* Wehlau, David L.) Long binary linear codes and large caps in projective space. (English summary) **2001a:94036**
**Chen, Hegang** The maximum number of lines contained in subsets of PG$(k,2)$. (English summary) **2001j:51011**
**Cossidente, Antonio** *see* **Ballico, Edoardo, 2001j:14070**
**Danev, Danyo** *see* **Boyvalenkov, Peter et al., 2001d:94044** *and* **2001m:05071**
**De Clerck, Frank** (*with* Hamilton, Nicholas; O'Keefe, Christine M.; Penttila, Tim) Quasi-quadrics and related structures. (English summary) **2001i:05046**
**Dougherty, Steven T.** Self-dual codes and finite projective planes. (English summary) **2001f:94014**
**Faina, Giorgio** Packing problem, coding theory and cryptography. (Italian. English summary) **2001j:94036**
**Feng, Rongquan** (*with* Kwak, Jin Ho) A construction of authentication codes with perfect secrecy from geometry of classical groups. (English summary) **2001a:94030**
**Gao, Suo Gang** (*with* Wang, Chun Sen; Guo, Chun Ling) A construction of Cartesian authentication code from symplectic geometry. (Chinese. English and Chinese summaries) **2001i:94064**
**Giulietti, Massimo** Small complete caps in PG$(2,q)$, for $q$ an odd square. (English summary) **2001k:51014**
**Guo, Chun Ling** *see* **Gao, Suo Gang et al., 2001i:94064**
**Hamilton, Nicholas** *see* **De Clerck, Frank et al., 2001i:05046**
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**Honold, Thomas** (*with* Landgev, Ivan N.) Linear codes over finite chain rings. (English summary) **2001c:94023**
**Jaffe, David B.** Optimal binary linear codes of length $\leq 30$. (English summary) **2001i:94073**
**Kazakov, Peter** *see* **Boyvalenkov, Peter et al., 2001m:05071**
**Key, Jennifer D.** (*with* Mackenzie-Fleming, Kirsten) Rigidity theorems for a class of affine resolvable designs. (English summary) **2001m:05040**
**Kwak, Jin Ho** *see* **Feng, Rongquan, 2001a:94030**
**Landgev, Ivan N.** *see* **Honold, Thomas, 2001c:94023**
**Li, Li[4]** *see* **You, Hong, 2001a:94033**
**Mackenzie-Fleming, Kirsten** *see* **Key, Jennifer D., 2001m:05040**
**McGuire, Gary** (*with* Ward, Harold N.) A determination of the weight enumerator of the code of the projective plane of order 5. (English summary) **2001g:94026**
**Mitradjieva, Maria** *see* **Boyvalenkov, Peter et al., 2001d:94044**
**O'Keefe, Christine M.** *see* **De Clerck, Frank et al., 2001i:05046**
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**Solov'eva, Faina I.** (*with* Topalova, S. T.) On automorphism groups of perfect binary codes and Steiner triple systems. (Russian. Russian summary) **2001j:94056**
**Swanepoel, Konrad J.** New lower bounds for the Hadwiger numbers of $l_p$ balls for $p<2$. (English summary) **2001e:94024**
**Topalova, S. T.** *see* **Solov'eva, Faina I., 2001j:94056**
**Wang, Chun Sen** *see* **Gao, Suo Gang et al., 2001i:94064**
**Ward, Harold N.** *see* **McGuire, Gary, 2001g:94026**
**Wehlau, David L.** *see* **Bruen, Aiden A., 2001a:94036**
**Xiang, Qing** *see* **Hollmann, Henk D. L., 2001k:94072**
**You, Hong** (*with* Li, Li[4]) Construction of Cartesian authentication codes from pseudo symplectic geometry of even dimension. (English summary) **2001a:94033**

## 51E23 Spreads and packing problems

**Baker, Ronald D.** (*with* Dover, Jeremy M.; Ebert, Gary L.; Wantz, Kenneth L.) Baer subgeometry partitions. (English summary) **2001g:51010**
**Biliotti, Mauro** (*with* Jha, Vikram; Johnson, Norman Lloyd[1]) Transitive parallelisms. (English summary) **2001d:51012**
**Dover, Jeremy M.** *see* **Baker, Ronald D. et al., 2001g:51010**
**Ebert, Gary L.** *see* **Baker, Ronald D. et al., 2001g:51010**
**Freni Casale, Sveva** Spreads in finite linear spaces. (Italian. English summary) **2001e:51009**
**Jha, Vikram** *see* **Biliotti, Mauro et al., 2001d:51012**
**Johnson, Norman Lloyd[1]** *see* **Biliotti, Mauro et al., 2001d:51012**
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**Casse, L. R. A.** *see* **Barwick, S. G. et al., 2001g:51007**
**Faina, Giorgio** Packing problem, coding theory and cryptography. (Italian. English summary) **2001j:94036**
**Jha, Vikram** (*with* Johnson, Norman Lloyd[1]) Almost Desarguesian maximal partial spreads. (English summary) **2001m:51008**
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— *see also* **Jha, Vikram, 2001m:51008**
**Penttila, Tim** (*with* Williams, Blair) Ovoids of parabolic spaces. (English summary) **2001i:51005**
**Quinn, Catherine T.** *see* **Barwick, S. G. et al., 2001g:51007**
**Riesinger, Rolf** The second extension of the Thas-Walker construction. (English summary) **2001k:51005**
**Williams, Blair** *see* **Penttila, Tim, 2001i:51005**

## 51E24 Buildings and the geometry of diagrams

**Abramenko, Peter** (*with* Van Maldeghem, Hendrik) On opposition in spherical buildings and twin buildings. (English summary) **2001m:51016**
**Atanasi, Laura** Integral geometry on affine buildings. (English summary) **2001i:51016**
**Baumeister, Barbara** (*with* Pasini, Antonio) Erratum: "On $C_2$-$L$-geometries" [Geom. Dedicata **71** (1998), no. 1, 33–59; MR 99k:51014a]. **2001a:51009**
**Buekenhout, Francis** (*with* Cara, Philippe; Vanmeerbeek, Koen) Geometries of the group PSL$(2,11)$. (English summary) **2001m:51017**
**Cara, Philippe** An infinite family of Petersen geometries with nonlinear diagram. (English summary) **2001g:51011**
— On the number of planes in Neumaier's $A_8$-geometry. (English summary) **2001i:51017**
— *see also* **Buekenhout, Francis et al., 2001m:51017**
**Fukshansky, A.** (*with* Stroth, G.; Wiedorn, C.) The semiclassical parabolic systems. (English summary) **2001f:51018**
**Hall, J. I.** (*with* Shpektorov, S. V.) $P$-geometries of rank 3. (English summary) **2001m:51018**
**Huybrechts, Cécile** (*with* Pasini, Antonio) Flag-transitive extensions of dual affine spaces. (English summary) **2001f:51019**

— A unified construction for $c^*\cdot c$- and $L\cdot L^*$-geometries in projective spaces. (English summary) **2001a:51010**
**Leemans, Dimitri** The rank 3 geometries of the simple Suzuki groups $Sz(q)$. (English summary) **2001m:51019**
— *see also* **Lefèvre-Percsy, Christiane et al., 2001m:51020**
**Lefèvre-Percsy, Christiane** (*with* Percsy, Nicolas; Leemans, Dimitri) New geometries for finite groups and polytopes. (English summary) **2001m:51020**
**Pasini, Antonio** (*with* Pica, Giustina) Wrapping polygons in polygons. (English summary) **2001f:51020**
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**Percsy, Nicolas** *see* **Lefèvre-Percsy, Christiane et al., 2001m:51020**
**Pica, Giustina** *see* **Pasini, Antonio, 2001f:51020**
**Shpektorov, S. V.** *see* **Hall, J. I., 2001m:51018**
**Stroth, G.** *see* **Fukshansky, A. et al., 2001f:51018**
**Van Maldeghem, Hendrik** *see* **Abramenko, Peter, 2001m:51016**
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**Wiedorn, C.** *see* **Fukshansky, A. et al., 2001f:51018**

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**Del Fra, Alberto** On $d$-dimensional dual hyperovals. (English summary) **2001f:51014**
**Gottschalk, Harald** On the geometry of Baer subplanes in PG(2, 4). (English summary) **2001i:51008**
**Landvogt, Erasmus** Some functorial properties of the Bruhat-Tits building. **2001g:20029**
**Mantero, A. M.** (*with* Zappa, A.) Eigenfunctions of the Laplace operators for a building of type $\tilde{A}_2$. (English summary) **2001h:43010**
**Parreau, Anne** Immeubles affines: construction par les normes et étude des isométries. (English summary) [Affine buildings: construction using norms and study of the isometries] **2001m:20042**
**Ronan, Mark A.** Local isometries of twin buildings. **2001g:20030**
**Xia, Jianguo** Triangle buildings and triangle groups over GF(8). (English summary) **2001m:20043**
**Yoshiara, Satoshi** On a family of planes of a polar space. (English summary) **2001m:51011**
**Zappa, A.** *see* **Mantero, A. M., 2001h:43010**

## 51E25 Other finite nonlinear geometries

**Steinke, Günter F.** Finite Laguerre near-planes of odd order admitting Desarguesian derivations. (English summary) **2001e:51010**

Items with secondary classifications in 51E25

**Torres del Castillo, Gerardo F.** Representing rotations by quaternions. (Spanish. Spanish summary)

## 51E26 Other finite linear geometries

**Biondi, Paola** A classification of finite $\{n-k, n\}$-biregular spaces. (English summary) **2001f:51021**
**Camina, Alan R.** (*with* Spiezia, Federica) Sporadic groups and automorphisms of linear spaces. (English summary) **2001g:51012**
**Spiezia, Federica** *see* **Camina, Alan R., 2001g:51012**
**Żynel, Mariusz** Finite Grassmannian geometries. (English summary) **2001k:51016**

Items with secondary classifications in 51E26

**De Bruyn, Bart** On near hexagons and spreads of generalized quadrangles. (English summary) **2001f:51009**
**Freni Casale, Sveva** Quasiparallel lines in finite linear spaces. **2001d:51004**
— Linear spaces with a family of mutually intersecting lines. (English summary) **2001i:51002**
**Günaltılı, İbrahim** (*with* Olgun, Şükrü) On the embedding of some linear spaces in finite projective planes. (English summary) **2001i:51009**
**Li, Hui Ling** *see* **Zhou, Sheng Lin et al., 2001g:05023**
**Liu, Wei Jun** *see* **Zhou, Sheng Lin et al., 2001g:05023**
**Olgun, Şükrü** *see* **Günaltılı, İbrahim, 2001i:51009**
**Rajola, Sandro** (*with* Scafati Tallini, Maria) Colourings of a finite semilinear space. (English summary) **2001c:51006**
**Rinaldi, Gloria** Inversive planes, Minkowski planes and regular sets of points. (English summary) **2001m:51003**
**Scafati Tallini, Maria** *see* **Rajola, Sandro, 2001c:51006**
**Zhou, Sheng Lin** (*with* Li, Hui Ling; Liu, Wei Jun) The Ree groups ${}^2G_2(q)$ and $2-(v,k,1)$ block designs. (English summary) **2001g:05023**

## 51E30 Other finite incidence structures [see also 05B30]

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**Du, Ding-Zhu** *see* **Ngo, Hung Q., (2001f:92002)**
**Evans, Ronald** (*with* Hollmann, Henk D. L.; Krattenthaler, Christian; Xiang, Qing) Gauss sums, Jacobi sums, and $p$-ranks of cyclic difference sets. (English summary) **2001b:05038**
**Hollmann, Henk D. L.** *see* **Evans, Ronald et al., 2001b:05038**
**Krattenthaler, Christian** *see* **Evans, Ronald et al., 2001b:05038**
**Ngo, Hung Q.** (*with* Du, Ding-Zhu) A survey on combinatorial group testing algorithms with applications to DNA library screening. (English summary) (*see* **2001f:92002**)
**Xiang, Qing** *see* **Evans, Ronald et al., 2001b:05038**

## 51E99 None of the above, but in this section

**Ebert, Gary L.** Constructions in finite geometry using computer algebra systems. (English summary) **2001k:51017**
**Gehrke, Wolfgang** (*with* Pfalzgraf, Jochen[2]) Computer-aided construction of finite geometric spaces: automated verification of geometric constraints. (English summary) **2001i:51018**
**Pfalzgraf, Jochen[2]** *see* **Gehrke, Wolfgang, 2001i:51018**
**Rajola, Sandro** (*with* Scafati Tallini, Maria) Colourings of a finite semilinear space. (English summary) **2001c:51006**
**Scafati Tallini, Maria** *see* **Rajola, Sandro, 2001c:51006**

Items with secondary classifications in 51E99

**Figueroa-Centeno, Ramón M.** (*with* White, Arthur T.) Topological models for classical configurations. (English summary) **2001d:05028**
**Pach, János** (*with* Pinchasi, Rom) Bichromatic lines with few points. (English summary) **2001f:05156**
**Pinchasi, Rom** *see* **Pach, János, 2001f:05156**
**White, Arthur T.** *see* **Figueroa-Centeno, Ramón M., 2001d:05028**

# 51Fxx Metric geometry

## 51F05 Absolute planes

**Milojević, Miroljub D.** Certain comparative examinations of plane geometries according to Cayley-Klein. (English summary) (*see* **2001c:00024**)

## 51F15 Reflection groups, reflection geometries [see also 20H10, 20H15; for Coxeter groups, see 20F55]

Items with secondary classifications in 51F15

**Bessis, David** Groupes des tresses et éléments réguliers. (English summary) [Braid groups and regular elements] **2001c:20082**
**Borcherds, Richard E.** Reflection groups of Lorentzian lattices. **2001h:11086**
**Borovik, Alexandre V.** (*with* Gel'fand, Izrail' Moiseevich; White, Neil) Combinatorial flag varieties. **2001m:52019**
**Broughton, S. Allen** (*with* Haney, Dawn M.; McKeough, Lori T.; Mayfield, Brandy Smith) Divisible tilings in the hyperbolic plane. (English summary) **2001h:52018**
**Burgiel, H.** (*with* Stanton, Dennis W.) Realizations of regular abstract polyhedra of types $\{3,6\}$ and $\{6,3\}$. (English summary) **2001g:52018**
**Gel'fand, Izrail' Moiseevich** *see* **Borovik, Alexandre V. et al., 2001m:52019**
**Haney, Dawn M.** *see* **Broughton, S. Allen et al., 2001h:52018**
**Howlett, Robert B.** (*with* Shi, Jian-yi) On regularity of finite reflection groups. (English summary) **2001f:20081**
**Hughes, Mervyn C.** (*with* Morris, Alun O.) Root systems for two dimensional complex reflection groups. (English summary) **2001k:20083**
**Ignatenko, V. F.** On the geometric invariant theory of infinite groups generated by skew reflections. **2001h:14057**
**Lehrer, G. I.** (*with* Springer, Tonny A.) Reflection subquotients of unitary reflection groups. (English summary) **2001f:20082**
**Mayfield, Brandy Smith** *see* **Broughton, S. Allen et al., 2001h:52018**
**McKeough, Lori T.** *see* **Broughton, S. Allen et al., 2001h:52018**
**Morris, Alun O.** *see* **Hughes, Mervyn C., 2001k:20083**
**Nikulin, Vyacheslav V.** On the classification of hyperbolic root systems of rank three. (Russian. English and Russian summaries) **2001m:17034**
**Shi, Jian-yi** *see* **Howlett, Robert B., 2001f:20081**
**Springer, Tonny A.** *see* **Lehrer, G. I., 2001f:20082**
**Stanton, Dennis W.** *see* **Burgiel, H., 2001g:52018**
**Stumbo, Fabio** Minimal length coset representatives for quotients of parabolic subgroups in Coxeter groups. (Italian summary) **2001i:20079**
**White, Neil** *see* **Borovik, Alexandre V. et al., 2001m:52019**

## 51F20 Congruence and orthogonality [see also 20H05]

**List, K.** On orthogonality-preserving Plücker transformations of hyperbolic spaces. (English summary) **2001j:51015**

## 51F25 Orthogonal and unitary groups [see also 20H05]

Items with secondary classifications in 51F25

**Albertson, Michael O.** (*with* Boutin, Debra L.) Realizing finite groups in Euclidean space. (English summary) **2001a:20004**
**Boutin, Debra L.** *see* **Albertson, Michael O., 2001a:20004**
**Stanley, Richard P.** Spanning trees and a conjecture of Kontsevich. (English summary) **2001g:05109**

## 51F99 None of the above, but in this section

**Bezdek, Károly** (*with* Lángi, Zsolt) Almost equidistant points on $S^{d-1}$. (English summary) **2001e:51011**
**Lángi, Zsolt** *see* **Bezdek, Károly, 2001e:51011**
**Okubo, Katsumi** *see* **Sano, Keita**
**Sano, Keita** (*with* Okubo, Katsumi) Indefinite metric geometry. (Japanese. English summary)

Items with secondary classifications in 51F99

**Bezdek, Károly** (*with* Connelly, Robert) Two-distance preserving functions from Euclidean space. (English summary) **2001h:51024**
**Connelly, Robert** *see* **Bezdek, Károly, 2001h:51024**
**Dress, Andreas W. M.** (*with* Huber, K. T.; Moulton, Vincent) Affine maps that induce polyhedral complex isomorphisms. (English summary) **2001d:52026**

**Huber, K. T.** *see* **Dress, Andreas W. M. et al., 2001d:52026**
**Moulton, Vincent** *see* **Dress, Andreas W. M. et al., 2001d:52026**
**Tölke, Jürgen** Zum Abramescu-Kreis in den affinen CK-Ebenen bezüglich der allgemeinen Ähnlichkeitsgruppe. (English summary) [On the Abramescu circle in the affine CK-planes with respect to the general similarity group] **2001g:53020**

## 51G05 Ordered geometries (ordered incidence structures, etc.)

# 51Hxx Topological geometry

## 51H05 General theory

**El-Ghoul, M.** (*with* Zeen El-Deen, M. R.) On some local properties of fuzzy manifold and its folding. (English summary)
**Kalhoff, Franz B.** A note on the place topology of projective planes. (English summary) **2001k:51018**
**Zeen El-Deen, M. R.** *see* **El-Ghoul, M.**

## 51H10 Topological linear incidence structures

**Biller, Harald** Actions of compact groups on compact $(4, m)$-quadrangles. (English summary) **2001m:51021**
**Bödi, Richard** (*with* Immervoll, Stefan; Löwe, Harald) Smooth stable planes and the moduli spaces of locally compact translation planes. (English summary) **2001j:51016**
**Grundhöfer, Theo** (*with* Stroppel, Markus) Direct limits and maximality of stable planes. (English summary) **2001h:51020**
— (*with* Knarr, Norbert; Kramer, Linus) Flag-homogeneous compact connected polygons. II. (English summary) **2001m:51022**
**Hähl, Hermann** Sixteen-dimensional locally compact translation planes with large automorphism groups having no fixed points. (English summary) **2001h:51021**
**Immervoll, Stefan** *see* **Bödi, Richard et al., 2001j:51016**
**Joswig, Michael** Compact connected translation generalized quadrangles. (English summary) **2001i:51019**
**Klein, Hauke** Collineations of $V$-spaces. (English summary) **2001h:51023**
— (*with* Knarr, Norbert; Löwen, Rainer) Four-dimensional compact projective planes admitting an affine Hughes group. (English summary) **2001h:51022**
**Knarr, Norbert** *see* **Klein, Hauke et al., 2001h:51022** *and* **Grundhöfer, Theo et al., 2001m:51022**
**Kramer, Linus** *see* **Grundhöfer, Theo et al., 2001m:51022**
**Löwe, Harald** (*with* Löwen, Rainer; Soytürk, Emine) Self-orthogonal compact spreads and unitals in topological translation planes. (English summary) **2001k:51019**
— Noncompact, almost simple groups operating on locally compact, connected translation planes. (English summary) **2001a:51011**
— *see also* **Bödi, Richard et al., 2001j:51016**
**Löwen, Rainer** *see* **Klein, Hauke et al., 2001h:51022** *and* **Löwe, Harald et al., 2001k:51019**
**Salzmann, Helmut R.** On the classification of 16-dimensional planes. **2001k:51020**
**Soytürk, Emine** *see* **Löwe, Harald et al., 2001k:51019**
**Stroppel, Markus** *see* **Grundhöfer, Theo, 2001h:51020**

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**Betten, Dieter** (*with* Riesinger, Rolf) Discussing Knarr's 2-surface of $\mathbf{R}^4$ which generates the first single shift plane. (English summary) **2001h:51002**
**El-Kholy, E. M.** Convex isometric folding. (English summary) **2001b:57002**
**Kalhoff, Franz B.** A note on the place topology of projective planes. (English summary) **2001k:51018**
**Kramer, Linus** Compact ovoids in quadrangles. II. The classical quadrangles. (English summary) **2001b:51007**
— Compact ovoids in quadrangles. III. Clifford algebras and isoparametric hypersurfaces. (English summary) **2001h:51008**
**Maier, Peter** Stable planes from Lie groups with planar partitions. (English summary) **2001m:51001**
**Riesinger, Rolf** *see* **Betten, Dieter, 2001h:51002**

## 51H15 Topological nonlinear incidence structures

**Polster, Burkard** Squaring the triangle. (English summary) **2001k:51021**
**Schroth, Andreas E.** Compact generalised quadrangles with parameter 1 and large group of automorphisms. (English summary) **2001j:51017**

Items with secondary classifications in 51H15

**Schroth, Andreas E.** The point space of compact generalized quadrangles with parameter 1. (English summary) **2001f:51010**
**Steinke, Günter F.** A classification of 2-dimensional Laguerre planes admitting 3-dimensional groups of automorphisms in the kernel. (English summary) **2001m:51004**

## 51H20 Topological geometries on manifolds [see also 57–XX]

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**Klein, Hauke** Collineations of $V$-spaces. (English summary) **2001h:51023**
**Löwe, Harald** Noncompact, almost simple groups operating on locally compact, connected translation planes. (English summary) **2001a:51011**
**Maier, Peter** Stable planes from Lie groups with planar partitions. (English summary) **2001m:51001**
**Riesinger, Rolf** *see* **Betten, Dieter, 2001h:51002**

## 51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

**Bödi, Richard** (*with* Immervoll, Stefan) Implicit characterizations of smooth incidence geometries. (English summary) **2001j:51018**
**Immervoll, Stefan** *see* **Bödi, Richard, 2001j:51018**

Items with secondary classifications in 51H25

**Bödi, Richard** (*with* Immervoll, Stefan; Löwe, Harald) Smooth stable planes and the moduli spaces of locally compact translation planes. (English summary) **2001j:51016**
**Immervoll, Stefan** *see* **Bödi, Richard et al., 2001j:51016**
**Löwe, Harald** *see* **Bödi, Richard et al., 2001j:51016**

## 51H99 None of the above, but in this section

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**Kurlin, V. A.** Basic embeddings into a product of graphs. (English summary) **2001b:54023**

# 51Jxx Incidence groups

## 51J15 Kinematic spaces

**Borubaev, A. A.** (*with* Pankov, P. S.) A kinematic representation of topological spaces represented as a coalescence. (Russian. English summary) **2001a:51012**
**Karzel, Helmut** (*with* Zizioli, Elena) Extension of a class of fibered loops to kinematic spaces. (English summary) **2001f:51022**
**Pankov, P. S.** *see* **Borubaev, A. A., 2001a:51012**
**Zizioli, Elena** *see* **Karzel, Helmut, 2001f:51022**

## 51J20 Representation by near-fields and near-algebras [see also 12K05, 16Y30]

**Ealy, C. E., Jr.** On $n$-spaces over $D$, $D$ a nearfield or division algebra. (English summary) **2001m:51023**

# 51Kxx Distance geometry

## 51K05 General theory

**Akça, Ziya** *see* **Kaya, Rüstem et al., 2001k:51022**
**Andalafte, Edward** (*with* Freese, Raymond) Altitude properties and characterizations of inner product spaces. (English summary) **2001j:51019**
**Freese, Raymond** *see* **Andalafte, Edward, 2001j:51019**
**Günaltılı, İbrahim** *see* **Kaya, Rüstem et al., 2001k:51022**
**Kaya, Rüstem** (*with* Akça, Ziya; Günaltılı, İbrahim; Özcan, Münevver) General equation for taxicab conics and their classification. (English summary) **2001k:51022**
**Lin, Bo** An algebraic characterization and a metric sum property of pseudo-symmetric sets. (Chinese. English and Chinese summaries)
**Ofīnik, B. V.** Isomorphic embeddings of finite metric spaces into Hamming spaces. (English and Russian summaries) **2001a:51013**
**Özcan, Münevver** *see* **Kaya, Rüstem et al., 2001k:51022**
**Pillichshammer, Friedrich** A maximal Gross-Stadje number in the Euclidean plane. (English summary) **2001m:51024**
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**Wen, Jia Jin** *see* **Zhang, Ri Xin**
**Yang, Shi Guo** *see* **Wang, Geng**
**Zhang, Ri Xin** (*with* Wen, Jia Jin) A multidimensional generalization for Tutescu's conjecture. (Chinese. English and Chinese summaries)

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**Ma, Yu Mei** The Aleksandrov problem for unit distance preserving mapping. (English summary) **2001k:46006**
**Miličić, Pavle M.** The angle modulus of the deformation of a normed space. (English summary) **2001m:46019**
**Rassias, Themistocles M.** (*with* Xiang, Shuhuang) On Mazur-Ulam theorem and mappings which preserve distances. (English summary) **2001i:46029**
**Xiang, Shuhuang** *see* **Rassias, Themistocles M., 2001i:46029**

## 51K10 Synthetic differential geometry

**Boskoff, Vladimir** (*with* Costara, Constantin) Some geometric aspects of the inclusion $\mathbb{R}^2 \subseteq \mathbb{C}^2 \subseteq P\mathbb{C}^2$. (English summary)
**Costara, Constantin** *see* **Boskoff, Vladimir**
**Zvyagintsev, A. A.** Pseudo-Euclidean spaces in models of synthetic differential geometry. (Russian. English summary) **2001b:51018**

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**Grinkevich, E. B.** Existence of models of pseudo-Riemannian spaces in synthetic differential geometry. (Russian. English summary) **2001j:53028**
**Nishimura, Hirokazu** Another curvature in synthetic differential geometry. (English summary) **2001h:58001**

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**Bezdek, Károly** (*with* Connelly, Robert) Two-distance preserving functions from Euclidean space. (English summary) **2001h:51024**
**Connelly, Robert** *see* **Bezdek, Károly, 2001h:51024**
**Deza, Michel-Marie** (*with* Rosenberg, Ivo G.) $n$-semimetrics. (English summary) **2001m:51025**
**Kocayusufoğlu, İsmail** Trigonometry on iso-taxicab geometry. (English summary)
**Rosenberg, Ivo G.** *see* **Deza, Michel-Marie, 2001m:51025**

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**Baronti, M.** (*with* Casini, Emanuele; Papini, Pier Luigi) On average distances and the geometry of Banach spaces. **2001g:46031**
**Casini, Emanuele** *see* **Baronti, M. et al., 2001g:46031**
**Hinrichs, Aicke** The average distance property of classical Banach spaces. (English summary) **2001g:46030**
**Kocayusufoğlu, İsmail** (*with* Özdamar, Ertuğrul) Connections and minimizing geodesics of taxicab geometry. (English summary)
**Larcher, G.** (*with* Schmid, Wolfgang Ch.; Wolf, Reinhard Karl) On the approximation of certain mass distributions appearing in distance geometry. (English summary) **2001f:65013**
**Moré, Jorge J.** (*with* Wu, Zhijun) Distance geometry optimization for protein structures. (English summary) **2001a:92024**
**Özdamar, Ertuğrul** *see* **Kocayusufoğlu, İsmail**
**Papini, Pier Luigi** *see* **Baronti, M. et al., 2001g:46031**
**Schmid, Wolfgang Ch.** *see* **Larcher, G. et al., 2001f:65013**
**Wolf, Reinhard Karl** Averaging distances in real quasihypermetric Banach spaces of finite dimension. (English summary) **2001f:46012**
— *see also* **Larcher, G. et al., 2001f:65013**
**Wu, Zhijun** *see* **Moré, Jorge J., 2001a:92024**

## 51Lxx Geometric order structures [see also 53C75]

### 51L15 $n$-vertex theorems via direct methods

**Firer, M.** *see* **Rodrigues Costa, Sueli I., 2001d:51013**
**Rodrigues Costa, Sueli I.** (*with* Firer, M.) Four-or-more-vertex theorems for constant curvature manifolds. **2001d:51013**
**Sedykh, Vyacheslav** On some classes of curves in a projective space. **2001b:51019**

## 51Mxx Real and complex geometry

### 51M04 Elementary problems in Euclidean geometries

**Astapov, N. S.** (*with* Noland, N. C.) The remarkable tetron.
**Babenko, Yu. I.** (*with* Zalgaller, V. A.) Power invariants of some point sets. (Russian. English and Russian summaries) **2001a:51014**
— Power invariants of the union of prisms. (Russian. English and Russian summaries) **2001a:51015**
**Bai, Lin** An affine equivalence problem for the inscribed quadrangle and the circumscribed quadrangle of an ellipse. (Chinese. English and Chinese summaries)
**Bivens, Irl** (*with* Simoson, Andrew) Beholding a rotating beacon. **2001f:51023**
**Bremner, Andrew** (*with* Goggins, Joseph R.; Guy, Michael J. T.; Guy, Richard K.) On rational Morley triangles. **2001f:51024**
**Buba-Brzozowa, Malgorzata** Ceva's and Menelaus' theorems for the $n$-dimensional space. (English summary)
**Čerin, Zvonko** Orthology, radial enlargement, and hyperbolas. (English summary) **2001a:51016**
— Isocentroidal triangles and regular hexagons. (English and Serbo-Croatian summaries)
— Rotation angles for regular quadrangles. (English summary) **2001i:51020**
**Chou, Shang-Ching** (*with* Lin, Dong-Dai) Wu's method for automated geometry theorem proving and discovering.
**Coxeter, H. S. M.** Five spheres in mutual contact. (English summary)
**Donovan, Peter** The square on the hypotenuse.
**Goggins, Joseph R.** *see* **Bremner, Andrew et al., 2001f:51024**
**Górska, Renata A.** *see* **Koźniewski, Edwin**
**Góźdź, Stanisław** (*with* Miernowski, Andrzej; Mozgawa, Witold) Sine theorem for rosettes.
**Grünbaum, Branko** A relative of "Napoleon's theorem".
**Guy, Michael J. T.** *see* **Bremner, Andrew et al., 2001f:51024**
**Guy, Richard K.** *see* **Bremner, Andrew et al., 2001f:51024**
**Hajja, Mowaffaq** Triangle centres: some questions in Euclidean geometry. (English summary)
**Hatzipolakis, Antreas P.** (*with* Yiu, Paul) The Lucas circles of a triangle.
**Horváth, Alexandru** Proving geometric theorems via Groebner bases theory. (English summary)
**Hou, Xiaorong** Proving by examples.
**Justin, J.** On some geometrical problems of paperfolding. **2001a:51017**
**Kanel, A.** (*with* Kovaldzhi, A.) Taking on triangles: in search of answers between the lines.
**Kosters, Menno** A theory of hexaflexagons. (English summary) **2001a:51018**
**Kovaldzhi, A.** *see* **Kanel, A.**
**Koźniewski, Edwin** (*with* Górska, Renata A.) Gergonne and Nagel points for simplices in the $n$-dimensional space. (English summary)
**van Lamoen, Floor** Morley related triangles on the nine-point circle. **2001j:51020**
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**Lin, Dong-Dai** *see* **Chou, Shang-Ching**
**Makeev, V. V.** On sets with a prescribed number of power invariants. (Russian. English and Russian summaries) **2001a:51019**
**Miernowski, Andrzej** *see* **Góźdź, Stanisław et al.**
**Mozgawa, Witold** *see* **Góźdź, Stanisław et al.**
**Ngo, Viet** *see* **Redlin, Lothar et al.**
**Noland, N. C.** *see* **Astapov, N. S.**
**Redlin, Lothar** (*with* Ngo, Viet; Watson, Saleem) Thales' shadow.
**Romero Márquez, Juan-Bosco** Some theorems of elementary plane geometry. (Spanish. English summary)
**Shephard, G. C.** Isomorphism invariants for projective configurations. (English summary) **2001d:51014**
— Pratt sequences and $n$-gons. (English summary) **2001g:51013**
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**Tabachnikov, Sergei** Going in circles: variations on the Money-Coutts theorem. (English summary) **2001d:51015**
**Tong, Jingcheng** The Pythagorean theorem and the Euclidean parallel postulate.
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**Volenec, Vladimir** A generalization of the butterfly theorem. (English summary)
**Watson, Saleem** *see* **Redlin, Lothar et al.**
**Xia, Fang Li** The precision values for the problems of four and five points in a square. (Chinese. English and Chinese summaries)
**Xu, Yong Long** Generalization of two mathematical theorems. (Chinese. English and Chinese summaries)
**Yiu, Paul** *see* **Hatzipolakis, Antreas P.**
**Zalgaller, V. A.** *see* **Babenko, Yu. I., 2001a:51014**

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**Ben-Israel, Adi** (*with* Foldes, Stephan) Stability of Brocard points of polygons. (English summary) **2001f:52004**
**Casselman, William A.** Pictures and proofs. **2001h:00010**
— Images et preuves. [Pictures and proofs]
**Čerin, Zvonko** Cevians as sides of triangles. (English summary)
— (*with* Gianella, Gian Mario) Triangles from point-to-line distances. (English summary) **2001k:51026**
**Cundy, Henry Martyn** (*with* Parry, Cyril Frederick) Geometrical properties of some Euler and circular cubics. II.
**Foldes, Stephan** *see* **Ben-Israel, Adi, 2001f:52004**
**Gianella, Gian Mario** *see* **Čerin, Zvonko, 2001k:51026**
**Kocay, William** (*with* Szypowski, Ryan) The application of determining sets to projective configurations. (English summary) **2001i:05047**
**Leyendekkers, J. V.** (*with* Shannon, Anthony G.) A simple proof that the area of a Pythagorean triangle is square-free. (English summary) **2001a:51021**
**McLean, K. Robin** Loops of regular polygons. **2001f:52043**
**Meinl, Gert** *see* **Weiss, Gunter[1] et al., 2001f:53029**
**Nestler, Karla** *see* **Weiss, Gunter[1] et al., 2001f:53029**
**Parry, Cyril Frederick** *see* **Cundy, Henry Martyn**
**(Perez, M. L.)** *see* **Smărăndache, Florentin, 2001i:11010**
**Shannon, Anthony G.** *see* **Leyendekkers, J. V., 2001a:51021**
**Smărăndache, Florentin** ★ Definitions, solved and unsolved problems, conjectures, and theorems in number theory and geometry. **2001i:11010**
**Szypowski, Ryan** *see* **Kocay, William, 2001i:05047**
**Wang, Shao Heng** (*with* Xu, Ming Chun) A computer algorithm for judging the solvability of a kind of geometrical maximum or minimum problems. (Chinese. English and Chinese summaries)
**Weiss, Gunter[1]** (*with* Nestler, Karla; Meinl, Gert) Some Moebius-geometric theorems connected to Euclidean kinematics. (English summary) **2001f:53029**
**Xu, Ming Chun** *see* **Wang, Shao Heng**
**Zhang, Jing-Zhong** Points elimination methods for geometric problem solving.

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**Problems:**
**Number theory and geometry** *see* **Smărăndache, Florentin, 2001i:11010**

### 51M05 Euclidean geometries (general) and generalizations

**Barry, P. D.** A source of results in projective geometry. (English summary) **2001f:51025**
**(Buckley, James J.)** *see* **Yuan, Xue Hai**
**Đorđević, Radosav Ž.** Some inequalities for triangle: old and new results. (English summary) **2001e:51012**
**(Eslami, E.)** *see* **Yuan, Xue Hai**
**Mo, Shao Kui** Geometries in particle spaces. (Chinese. English and Chinese summaries)
**Pambuccian, Victor** Le plus simple système d'axiomes pour la géométrie élémentaire. (English summary) [The simplest system of axioms for elementary geometry]
— On the Euclidean geometry of the double-edged ruler. (English summary)
**Shen, Zheng Wei** *see* **Yuan, Xue Hai**
**Yuan, Xue Hai** (*with* Shen, Zheng Wei) Notes on "Fuzzy plane geometry. I. Points and lines" [Fuzzy Sets and Systems **86** (1997), no. 2, 179–187; MR 97k:51013] and "Fuzzy plane geometry. II. Circles and polygons" [ibid. **87** (1997), no. 1, 79–85; MR 98a:51018] by J. J. Buckley and E. Eslami. (English summary)
**Zhang, Han Fang** Generalization and sharpening of Safta's conjecture in the $n$-dimensional space. (English summary)

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**Abdelmoez Mohamed, Hesham** (*with* Aly Abas Abdelhafez, Yosef) On the bisectors of weakly separable sets. (English summary) **2001h:68146**
**Aly Abas Abdelhafez, Yosef** *see* **Abdelmoez Mohamed, Hesham, 2001h:68146**
**Cederberg, Judith N.** ★ A course in modern geometries. (English summary) **2001f:51001**
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**Zhang, Hong Xin** (*with* Wang, Guo Jin[1]) Shape blending of curves that preserves geometric continuity. (Chinese. English and Chinese summaries)

## 51M09 Elementary problems in hyperbolic and elliptic geometries

**Bennett, Curtis D.** A paradoxical view of Escher's angels and devils. **2001i:51021**

**Etayo Gordejuela, José Javier** (*with* Martínez, Ernesto) Formulas for right-angle hyperbolic polygons. (Spanish. Spanish summary) **2001i:51022**

**Gordienko, V. M.** On quadrangles on surfaces of constant curvature [Zbl 857.51009]. (Russian. Russian summary) (*see* **2001a:00020**)

**Martínez, Ernesto** *see* **Etayo Gordejuela, José Javier, 2001i:51022**

**Shail, R.** A proof of Thébault's theorem.

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**Morin, Bernard** (*with* Nishi, Haruko) Hyperbolic structures on the configuration space of six points in the projective line. (English summary) **2001d:57019**

**Nishi, Haruko** *see* **Morin, Bernard, 2001d:57019**

## 51M10 Hyperbolic and elliptic geometries (general) and generalizations

**Birman, Graciela S.** (*with* Ungar, Abraham A.) The hyperbolic derivative in the Poincaré ball model of hyperbolic geometry. (English summary) **2001i:51023**

**Dobbs, David E.** Applications of a distance formula in hyperbolic plane geometry. (English summary)

**Gündoğan, H.** *see* **Uğurlu, H. H.**

**Hakim, Jeffrey** (*with* Sandler, Hanna) Standard position for objects in hyperbolic space. (English summary) **2001k:51023**

**Merkulova, O. M.** *see* **Zalgaller, V. A., 2001c:51007**

**Muciño-Raymundo, Jesús** Hyperbolic geometry: an introduction using calculus and complex variables. (Spanish) **2001i:51024**

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**Schmutz Schaller, Paul** Platonische Körper, Kugelpackungen und hyperbolische Geometrie. (German summary) [Platonic surfaces, sphere packings and hyperbolic geometry] **2001m:51026**

**Song, Shu Li** A simplified proof for a natural theorem of Lobachevskiĭ's parallel lines. (Chinese. English and Chinese summaries)

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**Ungar, Abraham A.** Gyrovector spaces in the service of hyperbolic geometry. (English summary) **2001e:51013**

— The bifurcation approach to hyperbolic geometry. (English summary) **2001h:51025**

— Hyperbolic trigonometry and its application in the Poincaré ball model of hyperbolic geometry. (English summary) **2001k:51024**

— *see also* **Birman, Graciela S., 2001i:51023**

**Ushijima, Akira** A unified viewpoint about geometric objects in hyperbolic space and the generalized tilt formula. (Japanese summary) (*see* **2001f:57001**)

**Zalgaller, V. A.** (*with* Merkulova, O. M.) An analogue of the Appollonian circle on the Lobachevskiĭ plane and on the sphere. (Russian. English and Russian summaries) **2001c:51007**

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**Benz, Walter** A characterization of relativistic addition. **2001m:83003**

— Elliptic distances in Hilbert spaces. (English summary) **2001b:46038**

**Branická, Mária** *see* **Bálint, Vojtech et al., 2001c:05014**

**Broughton, S. Allen** (*with* Haney, Dawn M.; McKeough, Lori T.; Mayfield, Brandy Smith) Divisible tilings in the hyperbolic plane. (English summary) **2001b:52018**

**Cederberg, Judith N.** ★ A course in modern geometries. (English summary) **2001f:51001**

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**Haney, Dawn M.** *see* **Broughton, S. Allen et al., 2001h:52018**

**Jorgensen, Troels** Composition and length of hyperbolic motions. **2001d:30080**

**List, K.** On orthogonality-preserving Plücker transformations of hyperbolic spaces. (English summary) **2001j:51015**

**Mayfield, Brandy Smith** *see* **Broughton, S. Allen et al., 2001h:52018**

**McKeough, Lori T.** *see* **Broughton, S. Allen et al., 2001h:52018**

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**Ortega Bombín, Ramón** (*with* Santander, Mariano) Rays and phases: the geometry of quantum space state. (English summary) **2001f:81017**

**Picardello, Massimo A.** The geodesic Radon transform on trees. (English summary) **2001i:44007**

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**Yu, Xue Gang[1]** Hyperbolic Hilbert space. (English summary) **2001k:46035**

## 51M15 Geometric constructions

**Bainville, Eric** (*with* Genevés, Bernard) Constructions using conics. **2001e:51014**

**Carrillo de Albornoz Torres, Agustín** (*with* Llamas Centeno, Inmaculada) Some methods for constructing geometric loci. (Spanish)

**Cundy, Henry Martyn** (*with* Parry, Cyril Frederick) Geometrical properties of some Euler and circular cubics. II.

**De Caen, Dominique** Large equiangular sets of lines in Euclidean space. (English summary) **2001h:51026**

**Eastwood, Michael G.** (*with* Penrose, Roger) Drawing with complex numbers. **2001k:51025**

**Genevés, Bernard** *see* **Bainville, Eric, 2001e:51014**

**Holing, Kent** Ladder problems—geometric solutions. (Norwegian. English summary) **2001e:51015**

**Llamas Centeno, Inmaculada** *see* **Carrillo de Albornoz Torres, Agustín**

**Parry, Cyril Frederick** *see* **Cundy, Henry Martyn**

**Penrose, Roger** *see* **Eastwood, Michael G., 2001k:51025**

**Sastry, K. R. S.** Heron triangles: an incenter perspective.

**Shephard, G. C.** Cyclic product theorems for polygons. I. Constructions using circles. (English summary) **2001g:51014**

**Woo, Peter Y.** Straightedge constructions, given a parabola.

Items with secondary classifications in 51M15

**Alperin, Roger C.** A mathematical theory of origami constructions and numbers. (English summary) **2001g:51017**

**Cooperstein, Bruce N.** Generating long root subgroup geometries of classical groups over finite prime fields. (English summary) **2001a:51002**

**Rosin, Paul L.** On Serlio's constructions of ovals.

**Villarreal Sáez de Urabain, Leopoldo** Cyclotomic concurrences. (Spanish. Spanish summary) **2001k:11214**

## 51M16 Inequalities and extremum problems {For convex problems, see 52A40.}

**Abi-Khuzam, Faruk F.** A trigonometric inequality and its geometric applications. (English summary) **2001a:51020**

**Böröczky, Károly** (*with* Kertész, G.; Makai, Endre, Jr.) The minimum area of a simple polygon with given side lengths. (English summary) **2001e:51016**

**Bose, Prosenjit** (*with* Czyzowicz, Jurek; Kranakis, Evangelos; Krizanc, Danny; Maheshwari, Anil) Cutting circles into equal area pieces. (English summary)

**Chu, Xiao Guang** Some inequalities for internal bisectors and opposite sides. (Chinese. English and Chinese summaries)

— (*with* Ying, Hua Yan) Two results for Cordon-type sum inequalities. (Chinese. English and Chinese summaries)

**Czyzowicz, Jurek** *see* **Bose, Prosenjit et al.**

**Kertész, G.** *see* **Böröczky, Károly et al., 2001e:51016**

**Kranakis, Evangelos** *see* **Bose, Prosenjit et al.**

**Krizanc, Danny** *see* **Bose, Prosenjit et al.**

**Leng, Gang Song** (*with* Zhu, Shen; Tang, Li Hua) Inequalities for two simplices. (English summary) **2001f:51026**

— *see also* **Shen, Wen Xuan, 2001e:51017**

**Ma, Tong Yi** An inequality of high-dimensional simplex and its applications. (Chinese. English and Chinese summaries)

**Maheshwari, Anil** *see* **Bose, Prosenjit et al.**

**Makai, Endre, Jr.** *see* **Böröczky, Károly et al., 2001e:51016**

**Makeev, V. V.** An extremal property of the Reuleaux triangle. (Russian. English and Russian summaries) **2001i:51025**

**Ren, Bing Yin** *see* **Tang, Yu Yong et al.**

**Satnoianu, Razvan Alin** A general method for establishing geometric inequalities in a triangle.

**Shen, Wen Xuan** (*with* Leng, Gang Song) Generalizations of Euler inequality in $E^n$. (English and Chinese summaries) **2001e:51017**

— Some geometrical inequalities with parameters on $n$-simplex. (English and Chinese summaries)

**Su, Zhan Jun** The maximum distance in higher dimensional spaces. (Chinese. English and Chinese summaries)

**Tang, Li Hua** *see* **Leng, Gang Song et al., 2001f:51026**

**Tang, Yu Yong** (*with* Wang, Ming De; Ren, Bing Yin) Research on a mathematical model for containing a circular truncated cone. (Chinese. English and Chinese summaries)

**Wang, Ming De** *see* **Tang, Yu Yong et al.**

**Wang, Shao Heng** (*with* Xu, Ming Chun) A computer algorithm for judging the solvability of a kind of geometrical maximum or minimum problems. (Chinese. English and Chinese summaries)

**Xu, Ming Chun** *see* **Wang, Shao Heng**

**Yang, Ding Hua** Some results for $k$-tangent spheres of simplexes. (Chinese. English and Chinese summaries)

**Yang, Shi Guo** Some inequalities involving medians of two simplexes. (English summary)

**Ying, Hua Yan** *see* **Chu, Xiao Guang**

**Zhang, Han Fang** A property of finite point sets on a sphere and its application. (Chinese. English and Chinese summaries)

**Zhu, Shen** *see* **Leng, Gang Song et al., 2001f:51026**

Items with secondary classifications in 51M16

**Aichholzer, Oswin** (*with* Aurenhammer, Franz; Icking, Christian; Klein, Rolf; Langetepe, Elmar; Rote, Günter) Generalized self-approaching curves. (English summary) **2001k:65033**

**Aurenhammer, Franz** *see* **Aichholzer, Oswin et al., 2001k:65033**

**Dar, Seannie** (*with* Gueron, Shay) A weighted Erdös-Mordell inequality. **2001m:52010**

**Dorđević, Radosav Ž.** Some inequalities for triangle: old and new results. (English summary) **2001e:51012**

**Gueron, Shay** *see* **Dar, Seannie, 2001m:52010**
**Icking, Christian** *see* **Aichholzer, Oswin et al., 2001k:65033**
**Klein, Rolf** *see* **Aichholzer, Oswin et al., 2001k:65033**
**Ku, Hsu-Tung** (*with* Ku, Mei-Chin) Analytic isoperimetric inequalities. (English summary) **2001i:26024**
**Ku, Mei-Chin** *see* **Ku, Hsu-Tung, 2001i:26024**
**Langetepe, Elmar** *see* **Aichholzer, Oswin et al., 2001k:65033**
**Nagasaka, Hirofumi** On graphs in Euclidean spaces with minimal total curvature. (English summary) **2001f:53006**
**Pillichshammer, Friedrich** A maximal Gross-Stadje number in the Euclidean plane. (English summary) **2001m:51024**
**Rote, Günter** *see* **Aichholzer, Oswin et al., 2001k:65033**

## 51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

**Cedilnik, Anton** On solid angles. (Slovenian. English summary)
**Dawson, Robert J. MacG.** A generalized face number for regular hyperbolic honeycombs. (English summary) **2001e:51018**
**Ladopoulos, Panaiotis** Sur la mobilité des polyèdres. [On the mobility of polyhedra] **2001f:51027**
**Monson, B.** (*with* Weiss, Asia Ivić) Realizations of regular toroidal maps. (English summary) **2001j:51021**
**Stojanović, Milica** Hyperbolic space groups for two families of fundamental simplices. (English summary) **2001f:51028**
**Vidav, Ivan** On a generalization of Heron's formula. (Slovenian. English and Slovenian summaries) **2001b:51020**
**Weiss, Asia Ivić** *see* **Monson, B., 2001j:51021**

### Items with secondary classifications in 51M20

**Arocha Pérez, Jorge Luis** (*with* Bracho, Javier; Montejano, Luis) Regular projective polyhedra with planar faces. I. (English summary) **2001g:52014**
**Below, A.** (*with* Brehm, U.; De Loera, Jesús A.; Richter-Gebert, J.) Minimal simplicial dissections and triangulations of convex 3-polytopes. (English summary) **2001g:52021**
**Ben-Israel, Adi** (*with* Foldes, Stephan) Stability of Brocard points of polygons. (English summary) **2001f:52004**
**Bracho, Javier** Regular projective polyhedra with planar faces. II. (English summary) **2001g:52015**
— *see also* **Arocha Pérez, Jorge Luis et al., 2001g:52014**
**Brehm, U.** *see* **Below, A. et al., 2001g:52021**
**Conway, John H.** (*with* Radin, Charles; Sadun, L.) Relations in SO(3) supported by geodetic angles. (English summary) **2001j:52015**
**Coxeter, H. S. M.** (*with* Kharchenko, A. V.) Frieze patterns for regular star polytopes and statistical honeycombs. (English summary) **2001i:52016**
**Delgado Friedrichs, Olaf** (*with* Deza, Michel-Marie) More icosahedral fulleroids. (English summary) **2001i:92068**
— (*with* Huson, Daniel) 4-regular vertex-transitive tilings of $\mathbf{E}^3$. (English summary) **2001i:52030**
**De Loera, Jesús A.** *see* **Below, A. et al., 2001g:52021**
**Deza, Michel-Marie** *see* **Delgado Friedrichs, Olaf, 2001i:92068**
**Eastwood, Michael G.** (*with* Penrose, Roger) Drawing with complex numbers. **2001k:51025**
**Foldes, Stephan** *see* **Ben-Israel, Adi, 2001f:52004**
**Hartley, Michael I.** (*with* McMullen, Peter; Schulte, Egon) Symmetric tessellations on Euclidean space-forms. (English summary) **2001e:52028**
**Huson, Daniel** *see* **Delgado Friedrichs, Olaf, 2001i:52030**
**Ichiishi, Tatsuro** (*with* Idzik, Adam) Equitable allocation of divisible goods. (English summary) **2001e:91114**
**Idzik, Adam** *see* **Ichiishi, Tatsuro, 2001e:91114**
**Ishii, Motonaga** On a general method to calculate vertices of $N$-dimensional product-regular polytopes. (English summary) **2001b:52021**
**Israel, Robert B.** *see* **Lisoněk, Petr**
**Kharchenko, A. V.** *see* **Coxeter, H. S. M., 2001i:52016**
**Lisoněk, Petr** (*with* Israel, Robert B.) Metric invariants of tetrahedra via polynomial elimination. (English summary)
**McMullen, Peter** *see* **Hartley, Michael I. et al., 2001e:52028**
**Monson, B.** (*with* Weiss, Asia Ivić) Realizations of regular toroidal maps of type $\{4,4\}$. (English summary) **2001g:52019**
**Montejano, Luis** *see* **Arocha Pérez, Jorge Luis et al., 2001g:52014**
**Nikulin, Vyacheslav V.** On the classification of hyperbolic root systems of rank three. (Russian. English and Russian summaries) **2001m:17034**
**Okumura, Hiroshi[1]** (*with* Rigby, J. F.) A double tiling of triangles and regular hexagons. (English summary) **2001j:52028**
**Penrose, Roger** *see* **Eastwood, Michael G., 2001k:51025**
**Radin, Charles** *see* **Conway, John H. et al., 2001j:52015**
**Richter-Gebert, J.** *see* **Below, A. et al., 2001g:52021**
**Rigby, J. F.** *see* **Okumura, Hiroshi[1], 2001j:52028**
**Sadun, L.** *see* **Conway, John H. et al., 2001j:52015**
**Schmutz Schaller, Paul** Platonische Körper, Kugelpackungen und hyperbolische Geometrie. (German summary) [Platonic surfaces, sphere packings and hyperbolic geometry] **2001m:51026**
**Schulte, Egon** *see* **Hartley, Michael I. et al., 2001e:52028**
**Sedykh, Vyacheslav** Discrete versions of the four-vertex theorem. (English summary) **2001e:52015**
**Terrones, Humberto** (*with* Terrones, Mauricio) Geometry and energetics of high genus fullerenes and nanotubes. (English summary) (*see* **2001b:92001**)
**Terrones, Mauricio** *see* **Terrones, Humberto, (2001b:92001)**
**Vinson, Jade P.** On holyhedra. (English summary) **2001e:52016**
**Weiss, Asia Ivić** *see* **Monson, B., 2001g:52019**
**Yang, Shi Guo** Some inequalities involving medians of two simplexes. (English summary)

## 51M25 Length, area and volume [see also 26B15]

**Hajja, Mowaffaq** A vector proof of a theorem of Bang.
**Hiriart-Urruty, Jean-B.** *see* **Quadrat, Jean-Pierre et al.**
**Hong, Yi[1]** *see* **Tao, Zhi Sui, 2001m:51028**
**Juhász, Imre** Computing volume of solids bounded by Bézier surfaces. (English summary) **2001m:51027**
**Kendig, Keith** Is a 2000-year-old formula still keeping some secrets? **2001d:51017**
**Lasserre, Jean Bernard** *see* **Quadrat, Jean-Pierre et al.**
**Leyendekkers, J. V.** (*with* Shannon, Anthony G.) A simple proof that the area of a Pythagorean triangle is square-free. (English summary) **2001a:51021**
**Ogata, Takehide** On a property of function $G(M)$. (English summary)
**Postnikov, M. M.** The problem of squarable lunes.
**Quadrat, Jean-Pierre** (*with* Lasserre, Jean Bernard; Hiriart-Urruty, Jean-B.) Pythagoras' theorem for areas. (English summary)
**Quintero, Ricardo** (*with* Rivaud, Juan José) If the area of the sphere is $4\pi r^2$, then .... (Spanish. Spanish summary)
**Rivaud, Juan José** *see* **Quintero, Ricardo**
**Shannon, Anthony G.** *see* **Leyendekkers, J. V., 2001a:51021**
**(Shenitzer, Abe)** *see* **Postnikov, M. M.**
**Tao, Zhi Sui** (*with* Hong, Yi[1]) On a problem of Heilbronn's type in $\mathbf{R}^3$. (Chinese. English and Chinese summaries) **2001m:51028**
**Wang, Xiao Qin** Notes on Archimedes' proofs of the volumes of joined umbrellas. (Chinese. English and Chinese summaries)

### Items with secondary classifications in 51M25

**Böröczky, Károly** (*with* Kertész, G.; Makai, Endre, Jr.) The minimum area of a simple polygon with given side lengths. (English summary) **2001e:51016**
**Comte, Georges** (*with* Lion, Jean-Marie; Rolin, J.-P.) Nature log-analytique du volume des sous-analytiques. (English summary) [Log-analytic nature of the volume of subanalytic sets] **2001m:32016**
**Kertész, G.** *see* **Böröczky, Károly et al., 2001e:51016**
**Ku, Hsu-Tung** (*with* Ku, Mei-Chin) Analytic isoperimetric inequalities. (English summary) **2001i:26024**
**Ku, Mei-Chin** *see* **Ku, Hsu-Tung, 2001i:26024**
**Lion, Jean-Marie** *see* **Comte, Georges et al., 2001m:32016**
**Makai, Endre, Jr.** *see* **Böröczky, Károly et al., 2001e:51016**
**Rolin, J.-P.** *see* **Comte, Georges et al., 2001m:32016**
**Sabitov, I. Kh.** The generalized Heron-Tartaglia formula and some of its consequences. (Russian. Russian summary) **2001a:52023**
**Yuan, Ming Hao** A result on a conjecture concerning the Fibonacci triangle when $k = 4$. (Chinese. English and Chinese summaries) **2001i:11019**

## 51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

**Durante, Nicola** (*with* Napolitano, Vito; Olanda, Domenico) The Grassmann space of a planar space. (English summary) **2001g:51015**
**Napolitano, Vito** *see* **Durante, Nicola et al., 2001g:51015**
**Olanda, Domenico** *see* **Durante, Nicola et al., 2001g:51015**

## 51M99 None of the above, but in this section

**Hou, Xiaorong** (*with* Li, Hongbo; Wang, Dongming; Yang, Lu) "Russian killer" no. 2: a challenging geometric theorem with human and machine proofs.
**Li, Hongbo** *see* **Hou, Xiaorong et al.**
**Ordin, A. A.** A generalized barycentric subdivision of a triangle, and semigroups of Möbius transformations. (Russian) **2001h:51027**
**Torretti, Roberto** A model for Smarandache's anti-geometry.
**Wang, Dongming** *see* **Hou, Xiaorong et al.**
**Yang, Lu** *see* **Hou, Xiaorong et al.**
**Yang, Shi Guo** The metric equations of bifundamental figurates in non-Euclidean spaces. (Chinese. English and Chinese summaries)

### Items with secondary classifications in 51M99

**Karpelevich, Fridrikh Izrailevich** (*with* Pecherskiĭ, E. A.; Sukhov, Yu. M.) The Cramér transform and large deviations on three-dimensional Lobachevsky space. (English summary) **2001j:60051**
**Pecherskiĭ, E. A.** *see* **Karpelevich, Fridrikh Izrailevich et al., 2001j:60051**
**Raĭgorodskiĭ, A. M.** On the chromatic number of a space. (Russian) **2001i:05072**
**Richter, Christian** Simple paradoxical replications of sets. (English summary) **2001i:52015**
**Schleiermacher, Adolf** Some remarks on Euclidean invariants. (English summary) **2001h:39030**
**Sukhov, Yu. M.** *see* **Karpelevich, Fridrikh Izrailevich et al., 2001j:60051**

# 51Nxx Analytic and descriptive geometry

## 51N05 Descriptive geometry [see also 65D17, 68U07]

**Blach, Anna** Determination of thickness of rotary building shells. (English summary)
**Brsakoska, Slaǵana** *see* **Dimitrovski, Dragan et al.**
**Dimitrovski, Dragan** (*with* Gogovska, Valentina; Brsakoska, Slaǵana) Cycloidal trigonometry. (Macedonian. English and Macedonian summaries)
**Ebisui, Hirotaka** Some expressions of ovaloid and form defined by supporting function. (English summary) (*see* **2001i:00036**)
**Glaeser, Georg** (*with* Schröcker, Hans-Peter) Reflections on refractions. (English summary) **2001g:51016**
**Gogovska, Valentina** *see* **Dimitrovski, Dragan et al.**

**Gong, Na** *see* **Zhou, Rui Ping et al.**
**Guo, Bing Yi** *see* **Zhou, Rui Ping et al.**
**More, S. V.** *see* **Waghmare, G. L.**
**Pokrovskaya, Marina V.** Education with fascination: teaching descriptive geometry with applications.
**Schröcker, Hans-Peter** *see* **Glaeser, Georg, 2001g:51016**
**Vogler, Hans** Über eine Verallgemeinerung des Drehfluchtprinzipes (Affinspurenprinzip). [On a generalization of the principle of rotation of vanishing elements (affine trace principle)] **2001c:51008**
**Waghmare, G. L.** (*with* More, S. V.) New Smarandache algebraic structures. (English summary)
**Zhou, Rui Ping** (*with* Guo, Bing Yi; Gong, Na) Application of projection transformation and surface transformation to descriptive geometry. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51N05

**Caliò, Franca** (*with* Marchetti, Elena) Generation of architectural forms through linear algebra. (*see* **2001i:01005**)
**Eastwood, Michael G.** (*with* Penrose, Roger) Drawing with complex numbers. **2001k:51025**
**Farag, A. M.** (*with* Weiss, Gunter[1]) Reconstruction of the satellite orbit via orientation angles. (English summary) **2001h:70045**
**Marchetti, Elena** *see* **Caliò, Franca, (2001i:01005)**
**Obradović, Ratko** Surface-surface intersection: auxiliary spheres. (English summary) (*see* **2001c:00024**)
**Penrose, Roger** *see* **Eastwood, Michael G., 2001k:51025**
**Velichová, Daniela** *see* **Zachariáš, Svatopluk, 2001e:51022**
**Weiss, Gunter[1]** *see* **Farag, A. M., 2001h:70045**
**Zachariáš, Svatopluk** (*with* Velichová, Daniela) Projection from 4D to 3D. (English summary) **2001e:51022**

## 51N10 Affine analytic geometry

**Ünan, Z.** (*with* Yilmaz, Murteza) Hyperbolic homothetic motions of conics. **2001i:51026**
**Yilmaz, Murteza** *see* **Ünan, Z., 2001i:51026**

Items with secondary classifications in 51N10

**Petrisor, Emilia** The polar form of a polynomial surface. (English summary)
**Vogler, Hans** Über eine Verallgemeinerung des Drehfluchtprinzipes (Affinspurenprinzip). [On a generalization of the principle of rotation of vanishing elements (affine trace principle)] **2001c:51008**

## 51N15 Projective analytic geometry

**Alperin, Roger C.** A mathematical theory of origami constructions and numbers. (English summary) **2001g:51017**
**Liu, Xiang Gao** Projective transformations and quadratic curves in the complex plane. (Chinese. English and Chinese summaries)
**Medvedeva, L. B.** (*with* Popovich, M.) On projecting of $\mathbf{P}^N$ onto $\mathbf{P}^{N-M}$ and the variety of projection centers. (English summary) **2001f:51029**
**Paskalev, Georgi** Invertible quadratic transformations in a projective plane. (Bulgarian. English and Russian summaries) (*see* **2001a:00036**)
**Popovich, M.** *see* **Medvedeva, L. B., 2001f:51029**
**Wu, Pei Yuan** Polygons and numerical ranges. **2001e:51019**

Items with secondary classifications in 51N15

**Gmainer, Johannes** (*with* Havlicek, Hans) A dimension formula for the nucleus of a Veronese variety. (English summary) **2001d:14060**
**Havlicek, Hans** *see* **Gmainer, Johannes, 2001d:14060**
**Panina, G. Yu.** Canonical decompositions of polyhedral functions and homogeneity problems in a projective space. (Russian. English and Russian summaries) **2001d:52024**
**Shephard, G. C.** Isomorphism invariants for projective configurations. (English summary) **2001d:51014**
**Sun, Yue Hong** Representing a helix with NURBS curves in cylindrical coordinates. (Chinese. English and Chinese summaries)

## 51N20 Euclidean analytic geometry

**Bényi, Árpád** (*with* Szeptycki, Paweł; Van Vleck, Fred) Archimedean properties of parabolas.
**Boyd, J. N.** (*with* Raychowdhury, P. N.) Coaxial circles and complex intersections. (English summary)
**Čerin, Zvonko** Cevians as sides of triangles. (English summary)
— (*with* Gianella, Gian Mario) Triangles from point-to-line distances. (English summary) **2001k:51026**
**Dovniković, Lazar** The realization of the continuity principle in the relativistic pencils of circles and spheres. (English summary) **2001e:51020**
**Gianella, Gian Mario** *see* **Čerin, Zvonko, 2001k:51026**
**Kuba, Gerald** Zerlegung des Raumes in Translate einer Schraublinie. (English summary) [Partition of a space into translates of a helix] **2001m:51029**
**Raychowdhury, P. N.** *see* **Boyd, J. N.**
**Roanes Macías, Eugenio** Finding geometric loci using algebra and computation. (Spanish. English summary)
**Su, Ren Suo** Some properties on rectilinear generators of a hyperboloid of one sheet. (Chinese. English and Chinese summaries)
**Szeptycki, Paweł** *see* **Bényi, Árpád et al.**
**Van Vleck, Fred** *see* **Bényi, Árpád et al.**
**Velichová, Daniela** *see* **Zachariáš, Svatopluk, 2001e:51022**
**Yiu, Paul** The uses of homogeneous barycentric coordinates in plane Euclidean geometry. (English summary) **2001e:51021**
**Zachariáš, Svatopluk** (*with* Velichová, Daniela) Projection from 4D to 3D. (English summary) **2001e:51022**

Items with secondary classifications in 51N20

**Alexiou, D.** (*with* Baniotopoulos, C. C.; Tsagas, Grigorios) On the minimal area on membranes: application of the theory of rectilinear congruence *C*. (English summary) **2001f:53010**
**Alperin, Roger C.** A mathematical theory of origami constructions and numbers. (English summary) **2001g:51017**
**Baniotopoulos, C. C.** *see* **Alexiou, D. et al., 2001f:53010**
**Čerin, Zvonko** Isocentroidal triangles and regular hexagons. (English and Serbo-Croatian summaries)
**Chilakamarri, Kiran B.** (*with* Hamburger, Peter; Pippert, Raymond E.) Analysis of Venn diagrams using cycles in graphs. (English summary) **2001g:05045**
**Hamburger, Peter** *see* **Chilakamarri, Kiran B. et al., 2001g:05045**
**Kamiyama, Yasuhiko** Topology of equilateral polygon linkages in the Euclidean plane modulo isometry group. **2001h:55015**
**van Lamoen, Floor** Morley related triangles on the nine-point circle. **2001j:51020**
**Martínez de la Escalera Castells, Nieves** The cone and conics. (Spanish. Spanish summary) **2001f:51002**
**Pippert, Raymond E.** *see* **Chilakamarri, Kiran B. et al., 2001g:05045**
**Song, Zuo Zhong** (*with* Tang, Yu Yong) Slant equidistant surfaces of cones and their properties. (Chinese. English and Chinese summaries) **2001f:53016**
**Tang, Yu Yong** *see* **Song, Zuo Zhong, 2001f:53016**
**Tsagas, Grigorios** *see* **Alexiou, D. et al., 2001f:53010**

## 51N25 Analytic geometry with other transformation groups

**Kurnosenko, A. I.** An inversive invariant of a pair of circles. (Russian. English and Russian summaries) **2001c:51009**

Items with secondary classifications in 51N25

**Ignatenko, V. F.** On the geometric invariant theory of infinite groups generated by skew reflections. **2001h:14057**

## 51N35 Questions of classical algebraic geometry [see also 14Nxx]

**Ballico, Edoardo** (*with* Cossidente, Antonio) Curves of the projective 3-space, tangent developables and partial spreads. **2001j:51022**
**Cossidente, Antonio** *see* **Ballico, Edoardo, 2001j:51022**
**Gmainer, Johannes** Pascal's triangle, normal rational curves, and their invariant subspaces. (English summary) **2001m:51030**

Items with secondary classifications in 51N35

**Glaeser, Georg** (*with* Schröcker, Hans-Peter) Reflections on refractions. (English summary) **2001g:51016**
**Leitenberger, Frank** Pascal's theorem and quantum deformation. (English summary) **2001d:17015**
**Schröcker, Hans-Peter** *see* **Glaeser, Georg, 2001g:51016**
**Sendra, J. Rafael** (*with* Sendra, Juana) Rationality analysis and direct parametrization of generalized offsets to quadrics. (English summary) **2001m:14084**
**Sendra, Juana** *see* **Sendra, J. Rafael, 2001m:14084**

## 51N99 None of the above, but in this section

**Sliepčević, Ana** (*with* Szirovicza, Vlasta) Die projektive Erzeugung der vollständig zirkulären Kurven 3. Ordnung in der isotropen Ebene. (English summary) [The projective generation of completely circular curves of third order in the isotropic plane]
**Szirovicza, Vlasta** *see* **Sliepčević, Ana**

Items with secondary classifications in 51N99

**Cooper, Martin C.** Linear constraints for the interpretation of line drawings of curved objects. (English summary) **2001b:68135**
**Hannachi, Messaoud** Enveloppes, coniques et développées. (English, French and Arabic summaries) [Envelopes, conics and evolutes] **2001i:26025**

## 51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

**Chubarev, Alexander** (*with* Pinelis, Iosif) Linearity of space-time transformations without the one-to-one, line-onto-line, or constancy-of-speed-of-light assumptions. (English summary) **2001k:51027**
**Kuipers, Jack B.** Quaternions and rotation sequences. (English summary) **2001a:51022**
**Pinelis, Iosif** *see* **Chubarev, Alexander, 2001k:51027**

Items with secondary classifications in 51P05

**Benz, Walter** A characterization of relativistic addition. **2001m:83003**
**Ortega Bombín, Ramón** (*with* Santander, Mariano) Rays and phases: the geometry of quantum space state. (English summary) **2001f:81017**
**Rózga, Krzysztof** On central extensions of gyrocommutative gyrogroups. (English summary) **2001a:20115**
**Santander, Mariano** *see* **Ortega Bombín, Ramón, 2001f:81017**
**Ungar, Abraham A.** Gyrovector spaces in the service of hyperbolic geometry. (English summary) **2001e:51013**
— Hyperbolic trigonometry in the Einstein relativistic velocity model of hyperbolic geometry. (English summary) **2001e:83005**
— The bifurcation approach to hyperbolic geometry. (English summary) **2001h:51025**

# 52–XX Convex and discrete geometry

## 52–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Aste, Tomaso** (*with* Weaire, Denis) ★ The pursuit of perfect packing. (English summary) **2001g:52001**
**Taylor, Patrick** ★ The star & cross polyhedra. **2001g:52002**
**Weaire, Denis** *see* **Aste, Tomaso, 2001g:52001**

Items with secondary classifications in 52–01

**Fenn, Roger** ★ Geometry. (English summary) **2001j:51001**
**Gallier, Jean** ★ Geometric methods and applications. (English summary) **2001i:53001**
**Hahn, Werner** ★ Symmetry as a developmental principle in nature and art.
**(Riedl, Rupert)** *see* **Hahn, Werner**

## 52–02 Research exposition (monographs, survey articles)

**Baladze, Ê. D.** *see* **Boltyanskiĭ, Vladimir Grigor'evich, 2001k:52002**
**Bárány, Imre** The technique of $M$-regions and cap coverings: a survey. (English summary) **2001k:52001**
**Boltyanskiĭ, Vladimir Grigor'evich** (*with* Baladze, Ê. D.) ★ Проблема Секефальви-Надя в комбинаторной геометрии. (Russian. English and Russian summaries) [The Szökefalvi-Nagy problem in combinatorial geometry] **2001k:52002**

## 52–03 Historical (must also be assigned at least one classification number from Section 01)

**Hitotumatu, Sin** Sphere packing problems. (Japanese) (*see* **2001c:01002**)

Items with secondary classifications in 52–03

**(Erchinger, Johannes)** *see* **Reich, Karin, 2001j:01031**
**Grünbaum, Branko** Parallelogram-faced isohedra with edges in mirror-planes. **2001j:52016**
**Reich, Karin** Die Entdeckung und frühe Rezeption der Konstruierbarkeit des regelmäßigen 17-Ecks und dessen geometrische Konstruktion durch Johannes Erchinger (1825). (German summary) [The discovery and early reception of the constructibility of the regular 17-gon and its geometric construction by Johannes Erchinger (1825)] **2001j:01031**
**Weaire, Denis** A short history of packing problems. (English summary) **2001e:01005**

## 52–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 52–04

**Alili, M.** (*with* Kaczyński, Tomasz) Geometric construction of a coboundary of a cycle. (English summary) **2001k:18012**
**Kaczyński, Tomasz** *see* **Alili, M., 2001k:18012**
**Kalai, Gil** (*with* Kleinschmidt, Peter; Meisinger, Günter) Flag numbers and FLAGTOOL. (English summary) **2001e:52027**
**Kleinschmidt, Peter** *see* **Kalai, Gil et al., 2001e:52027**
**Meisinger, Günter** *see* **Kalai, Gil et al., 2001e:52027**
**Ratschek, Helmut** (*with* Rokne, Jon) Exact and optimal convex hulls in 2D. (English summary) **2001e:65081**
**Rokne, Jon** *see* **Ratschek, Helmut, 2001e:65081**

## 52–06 Proceedings, conferences, collections, etc.

**(Bern, Marshall)** *see* **ACM Symposium: Computational Geometry, 2001f:52001**
**(Bezdek, Károly)** *see* **Discrete geometry and rigidity, 2001d:52001**
**(Connelly, Robert)** *see* **Discrete geometry and rigidity, 2001d:52001**
**(Danzer, Ludwig)** *see* **Selected papers in honor of Ludwig Danzer**
**(Kalai, Gil)** *see* **Polytopes—combinatorics and computation, 2001d:52002**
**(Schulte, Egon)** *see* **Selected papers in honor of Ludwig Danzer**
**(Senechal, Marjorie)** *see* **Selected papers in honor of Ludwig Danzer**
**(Ziegler, Günter M.)** *see* **Polytopes—combinatorics and computation, 2001d:52002**

Items listed otherwise than by author

**ACM Symposium:**
  **Computational Geometry** ★ ACM Symposium on Computational Geometry. **2001f:52001**
**Birthday:**
  **Danzer, Ludwig W.** ★ Selected papers in honor of Ludwig Danzer.
**Budapest** ★ Discrete geometry and rigidity. **2001d:52001**
**Discrete geometry and rigidity** ★ Discrete geometry and rigidity. **2001d:52001**
**Festschrift:**
  **Danzer, Ludwig W.** ★ Selected papers in honor of Ludwig Danzer.
**Miami, FL** ★ ACM Symposium on Computational Geometry. **2001f:52001**
**Oberwolfach** ★ Polytopes—combinatorics and computation. **2001d:52002**
**Polytopes—combinatorics and computation** ★ Polytopes—combinatorics and computation. **2001d:52002**
**Selected papers in honor of Ludwig Danzer** ★ Selected papers in honor of Ludwig Danzer.
**Seminar:**
  **Polytopes and Optimization** ★ Polytopes—combinatorics and computation. **2001d:52002**
**Workshop:**
  **Discrete Geometry and Rigidity** ★ Discrete geometry and rigidity. **2001d:52001**

Items with secondary classifications in 52–06

**(Akiyama, Jin)** *see* **Discrete and computational geometry, 2001e:68008**
**(Baake, Michael)** *see* **Directions in mathematical quasicrystals, 2001f:52047**
**(Gruber, Peter M.)** *see* **Conference: Stochastic Geometry, Convex Bodies and Empirical Measures, 2001h:00023**
**(Hershberger, John)** *see* **ACM Symposium: Computational Geometry**
**(Hurtado, Ferran)** *see* **Workshop: Computational Geometry, 2001h:65005**
**(Kano, Mikio)** *see* **Discrete and computational geometry, 2001e:68008**
**(Mitchell, Joseph S. B.)** *see* **Workshop: Computational Geometry, 2001h:65005**
**(Moody, Robert V.)** *see* **Directions in mathematical quasicrystals, 2001f:52047**
**(Noy, Marc)** *see* **Workshop: Computational Geometry, 2001h:65005**
**(Stoka, Marius I.)** *see* **Conference: Stochastic Geometry, Convex Bodies and Empirical Measures, 2001h:00022**
**(Urabe, Masatsugu)** *see* **Discrete and computational geometry, 2001e:68008**

Items listed otherwise than by author

**ACM Symposium:**
  **Computational Geometry** ★ {Fourteenth ACM Symposium on Computational Geometry}.
**Algebraic combinatorics on convex polytopes** ★ Totsu tamentai o meguru kumiawase ron no daisūteki shosō. (Japanese) [Algebraic combinatorics on convex polytopes] **2001m:00016**
**Barcelona** ★ 14th European Workshop on Computational Geometry CG'98. **2001h:65005**
**Conference:**
  **Discrete and Computational Geometry** ★ Discrete and computational geometry. **2001e:68008**
  **Stochastic Geometry, Convex Bodies and Empirical Measures** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
  — ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part II. **2001h:00023**
**Directions in mathematical quasicrystals** ★ Directions in mathematical quasicrystals. **2001f:52047**
**Discrete and computational geometry** ★ Discrete and computational geometry. **2001e:68008**
**Lecture Notes in Computer Science** ★ Discrete and computational geometry. **2001e:68008**
**Mazara del Vallo** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
— ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part II. **2001h:00023**
**Minneapolis, MN** ★ {Fourteenth ACM Symposium on Computational Geometry}.
**Park City, UT** ★ Selected papers from the Sixth International Meshing Roundtable. Part II. **2001e:65004**
**Selected papers from the Sixth International Meshing Roundtable** ★ Selected papers from the Sixth International Meshing Roundtable. Part II. **2001e:65004**
**Tokyo** ★ Discrete and computational geometry. **2001e:68008**
**Workshop:**
  **Computational Geometry** ★ 14th European Workshop on Computational Geometry CG'98. **2001h:65005**

# 52Axx General convexity

## 52A01 Axiomatic and generalized convexity

**Cristescu, Gabriela** On the error estimation in the replacement of the classical convexity by an approximate convexity. (English summary) (*see* **2001k:00021a**)
— *see also* **Lupşa, Liana**
**Lupşa, Liana** (*with* Cristescu, Gabriela) $((S,s),(\Lambda_\epsilon)_{\epsilon\in I},A,B,r)$ convexity at a point and $((S,s),(\Lambda_\epsilon)_{\epsilon\in I},A,B,r)$ starlike sets. (English summary)
**Markov, Svetoslav M.** On the algebraic properties of convex bodies and related algebraic systems. (English summary) **2001a:52001**
— On the algebraic properties of convex bodies and some applications. (English summary) **2001f:52002**
**Pumplün, D.** (*with* Röhrl, Helmut) Convexity theories. V. Extensions of absolutely and totally convex modules. (English summary) **2001k:52003**
**Röhrl, Helmut** *see* **Pumplün, D., 2001k:52003**
**Skordev, Dimitʺr G.** A separation theorem of Y. Tagamlitzki in its natural generality. (English summary) **2001a:52002**

Items with secondary classifications in 52A01

**Andalafte, Edward** (*with* Freese, Raymond) Altitude properties and characterizations of inner product spaces. (English summary) **2001j:51019**
**Aussel, D.** (*with* Daniilidis, Aris) Normal characterization of the main classes of quasiconvex functions. (English summary) **2001j:49028**
**Beltrametti, Enrico G.** *see* **Gudder, Stanley et al., 2001c:81007**
**Bugajski, S.** *see* **Gudder, Stanley et al., 2001c:81007**
**Castellani, Marco** Dual representations of classes of positively homogeneous functions. (English summary) **2001j:90117**
**Chowdhury, Mohammad S. R.** (*with* Tarafdar, Enayet; Yuan, George Xian-Zhi) Existence theorems of equilibria in $G$-convex spaces for $\mathfrak{F}_c^L$-majorized correspondences. (English summary) **2001f:91021**
— (*with* Tarafdar, Enayet; Tan, Kok-Keong) Minimax inequalities on $G$-convex spaces with applications to generalized games. **2001i:49016**
**Daniilidis, Aris** *see* **Aussel, D., 2001j:49028**
**Espínola, Rafael** (*with* López Acedo, Genaro) Ultimately compact operators in hyperconvex metric spaces. (English summary) **2001c:47062**
**Freese, Raymond** *see* **Andalafte, Edward, 2001j:51019**
**Gudder, Stanley** (*with* Pulmannová, Sylvia; Bugajski, S.; Beltrametti, Enrico G.) Convex and linear effect algebras. (English summary) **2001c:81007**
**Kubiś, Wiesław** Extension criterion for continuous convexity preserving maps. (English summary) **2001e:54024**

López Acedo, Genaro *see* Espínola, Rafael, 2001c:47062
Martínez-Legaz, Juan Enrique (*with* Singer, Ivan) Semi-spaces and bases of convexity systems in complete lattices. (English summary) 2001g:06007
Metel'skiĭ, N. N. (*with* Naĭdenko, V. G.) Partially convex hulls in the space $\mathbf{R}^n$. (Russian. English and Russian summaries) 2001h:52004
Morris, Walter D., Jr. Convex dimension of locally planar convex geometries. (English summary) 2001j:52001
Naĭdenko, V. G. *see* Metel'skiĭ, N. N., 2001h:52004
Niculescu, Constantin P. Convexity according to the geometric mean. (English summary) 2001c:26012
Pulmannová, Sylvia *see* Gudder, Stanley et al., 2001c:81007
Rubinov, Aleksandr M. (*with* Singer, Ivan) Best approximation by normal and conormal sets. (English summary) 2001j:41046
Singer, Ivan *see* Martínez-Legaz, Juan Enrique, 2001g:06007 *and* Rubinov, Aleksandr M., 2001j:41046
Tan, Kok-Keong *see* Chowdhury, Mohammad S. R. et al., 2001i:49016
Tarafdar, Enayet *see* Chowdhury, Mohammad S. R. et al., 2001f:91021 *and* 2001i:49016
Yuan, George Xian-Zhi *see* Chowdhury, Mohammad S. R. et al., 2001f:91021

## 52A05 Convex sets without dimension restrictions

Burger, Markus Zonoids and conditionally positive definite functions. (English summary) 2001k:52004
Gorokhovik, Valentin V. (*with* Shinkevich, Elena A.) Geometric structure and classification of infinite-dimensional halfspaces. (English summary) 2001f:52003
Metel'skiĭ, N. N. (*with* Naĭdenko, V. G.) On a class of partially convex half-spaces. (Russian. English and Russian summaries) 2001e:52001
Morris, Walter D., Jr. Convex dimension of locally planar convex geometries. (English summary) 2001j:52001
Naĭdenko, V. G. *see* Metel'skiĭ, N. N., 2001e:52001
Shinkevich, Elena A. *see* Gorokhovik, Valentin V., 2001f:52003

Items with secondary classifications in 52A05

Bronshtein, E. M. Typical convex sets. (Russian. Russian summary) 2001b:46023
Daykin, David E. The extreme points of the probabilistic capacities cone problem. 2001f:28002
Eckhoff, Jürgen The partition conjecture. (English summary) 2001e:05013
Markov, Svetoslav M. On the algebraic properties of convex bodies and some applications. (English summary) 2001f:52002
Martínez-Legaz, Juan Enrique (*with* Singer, Ivan) Semi-spaces and bases of convexity systems in complete lattices. (English summary) 2001g:06007
Penot, Jean-Paul (*with* Zălinescu, Constantin) Harmonic sum and duality. (English summary) 2001i:49061
Qian, Ming Zhong An inequality relating the $k$-modulus of convexity of a Hilbert space $X$ and that of $L_p(X)$. (Chinese. English and Chinese summaries) 2001f:46027
Rodríguez-Piazza, L. (*with* Romero-Moreno, M. C.) Parallelepipeds and decomposition of ranges of vector measures in Banach spaces. (English summary) 2001f:46067
Romero-Moreno, M. C. *see* Rodríguez-Piazza, L., 2001f:46067
Singer, Ivan *see* Martínez-Legaz, Juan Enrique, 2001g:06007
Zălinescu, Constantin *see* Penot, Jean-Paul, 2001i:49061

## 52A07 Convex sets in topological vector spaces [see also 46A55]

Dekster, Boris V. Simplexes with prescribed edge lengths in Minkowski and Banach spaces. (English summary) 2001b:52001
Fujihira, Hideyuki The faces of convex sets.
Grzybowski, J. (*with* Kaczmarek, S.; Urbański, Ryszard) General methods of constructing equivalent minimal pairs not unique up to translation. (English summary) 2001m:52001
Kaczmarek, S. *see* Grzybowski, J. et al., 2001m:52001
Kojman, Menachem Convexity ranks in higher dimensions. (English summary) 2001g:52003
Pallaschke, Diethard (*with* Urbański, Ryszard) Invariants of pairs of compact convex sets. (English summary) 2001g:52004
Urbański, Ryszard *see* Pallaschke, Diethard, 2001g:52004 *and* Grzybowski, J. et al., 2001m:52001

Items with secondary classifications in 52A07

Ben-El-Mechaiekh, Hichem (*with* Idzik, Adam) Ky Fan type coincidence theorems. I. (English summary)
Breen, Marilyn Sets of locally maximal visibility and finite unions of starshaped sets. (English summary) 2001f:52010
Cel, J. Tietze-type theorem for locally nonconical convex sets. (English summary) 2001b:46013
Cristescu, Gabriela *see* Lupşa, Liana
Dilworth, Stephen J. (*with* Howard, Ralph; Roberts, James W.) On the size of approximately convex sets in normed spaces. (English summary) 2001h:46010
Fonf, Vladimir P. On the boundary of a polyhedral Banach space. 2001j:46013
Howard, Ralph *see* Dilworth, Stephen J. et al., 2001h:46010
Hueter, Irene The convex hull of samples from self-similar distributions. (English summary) 2001j:60020
Idzik, Adam *see* Ben-El-Mechaiekh, Hichem
Kleinschmidt, Peter *see* Wood, G. R. et al., 2001m:52018
Komuro, Naoto Facial structure of convex sets and some applications. (*see* 2001d:00047)
Lupşa, Liana (*with* Cristescu, Gabriela) $((S,s),(\Lambda_t)_{t\in I},A,B,r)$ convexity at a point and $((S,s),(\Lambda_t)_{t\in I},A,B,r)$ starlike sets. (English summary)
McDowall, Stephen R. *see* Wood, G. R. et al., 2001m:52018
Okon, T. Choquet theory in metric spaces. (English summary) 2001d:46020
Park, Sehie Elements of the KKM theory for generalized convex spaces. (English summary) 2001m:47119
— Remarks on topologies of generalized convex spaces. (English summary) 2001m:47107
Polovinkin, E. S. On strongly convex sets and strongly convex functions. 2001i:46019
Protasov, Vladimir On a generalization of the addition operation for convex sets. (Russian. English and Russian summaries) 2001k:52006
Pumplün, D. (*with* Röhrl, Helmut) Convexity theories. V. Extensions of absolutely and totally convex modules. (English summary) 2001k:52003
Qian, Ming Zhong An inequality relating the $k$-modulus of convexity of a Hilbert space $X$ and that of $L_p(X)$. (Chinese. English and Chinese summaries) 2001f:46027
Roberts, James W. *see* Dilworth, Stephen J. et al., 2001h:46010
Röhrl, Helmut *see* Pumplün, D., 2001k:52003
Rom, Celina Remarks on decomposable sets. (English summary) 2001i:46021
Thompson, Anthony C. Geometric means of ellipsoids and other convex bodies. (English summary) 2001k:47023
Wood, G. R. (*with* McDowall, Stephen R.; Kleinschmidt, Peter) Constructing infinite-dimensional polytopes using Gale transforms. (English summary) 2001m:52018

## 52A10 Convex sets in 2 dimensions (including convex curves) [see also 53A04]

Awyong, Poh Wah *see* Scott, Paul R., 2001b:52002
Ben-Israel, Adi (*with* Foldes, Stephan) Stability of Brocard points of polygons. (English summary) 2001f:52004
Cel, J. Tietze-type theorem for partially convex planar sets. (English summary) 2001a:52003
Chai, Y. D. (*with* Kim, Yong Il) Euclidean cones over circles. (English summary)
Czyzowicz, Jurek (*with* Hurtado, Ferran; Urrutia, Jorge; Zaguia, Nejib) On polygons enclosing point sets. (English summary)
Dana-Picard, Thierry Rays of light trapped by conics. (English summary)
Foldes, Stephan *see* Ben-Israel, Adi, 2001f:52004
Füredi, Zoltán (*with* Wetzel, John E.) The smallest convex cover for triangles of perimeter two. (English summary) 2001c:52001
Grandcolas, Michel Regular polygons and transfinite diameter. (English summary) 2001k:52005
Hernández Cifre, María A. Is there a planar convex set with given width, diameter, and inradius? 2001j:52002
Hurtado, Ferran *see* Czyzowicz, Jurek et al.
Iones, A. L. *see* Zalgaller, V. A., 2001d:52003
Kaneko, Atsushi (*with* Kano, Mikio) Balanced partitions of two sets of points in the plane. (English summary) 2001i:52001
Kano, Mikio *see* Kaneko, Atsushi, 2001i:52001
Kim, Yong Il *see* Chai, Y. D.
Kojman, Menachem Cantor-Bendixson degrees and convexity in $\mathbb{R}^2$. (English summary) 2001m:52002
Kupitz, Yaakov S. (*with* Martini, Horst) On the weak circular intersection property. (English summary) 2001h:52001
Ludwig, Monika Upper semicontinuous valuations on the space of convex discs. (English summary) 2001g:52005
Martini, Horst *see* Kupitz, Yaakov S., 2001h:52001
Protasov, Vladimir On a generalization of the addition operation for convex sets. (Russian. English and Russian summaries) 2001k:52006
Scott, Paul R. (*with* Awyong, Poh Wah) Inequalities for convex sets. (English summary) 2001b:52002
Soranzo, Alessandro On a symmetry problem for polygons. (English summary) 2001c:52002
Urrutia, Jorge *see* Czyzowicz, Jurek et al.
Wegner, Bernd Chord-stretched convex versions of planar curves with self-intersections. (English summary) 2001k:52007
Wetzel, John E. *see* Füredi, Zoltán, 2001c:52001
Zaguia, Nejib *see* Czyzowicz, Jurek et al.
Zalgaller, V. A. (*with* Iones, A. L.) On the triangle of the least perimeter circumscribed about a convex $n$-gon. (Russian. English and Russian summaries) 2001d:52003

Items with secondary classifications in 52A10

Aronov, Boris (*with* Efrat, Alon; Halperin, Dan; Sharir, Micha) On the number of regular vertices of the union of Jordan regions. (English summary) 2001m:52035
Blind, G. (*with* Blind, R.) Isoperimetric quotients for a decomposed convex body. (English summary) 2001m:52008
Blind, R. *see* Blind, G., 2001m:52008
Chai, Y. D. (*with* Kim, Moonjeong) On a generalization of Fenchel's theorem. (English summary) 2001h:53003
Dem'yanov, V. F. The minimality of equivalent pairs of convex sets in $\mathbf{R}^2$. I. (English summary) 2001k:49041
— The minimality of equivalent pairs of convex sets in $\mathbf{R}^2$. II. (English summary) 2001k:49042
Efrat, Alon *see* Aronov, Boris et al., 2001m:52035
Francis, John Some combinatorial geometry for convex quadrilaterals. (English summary) (*see* 2001d:52001)
Gyachyauskas, Ė. Standardization of distributions of chord lengths and distances inside oval domains. (Russian. Russian and Lithuanian summaries)
Halperin, Dan *see* Aronov, Boris et al., 2001m:52035
Hernández Cifre, María A. Some covering problems for general planar lattices. (English summary) 2001k:52025
Kim, Moonjeong *see* Chai, Y. D., 2001h:53003
Kim, Yong Il Integral formulas for spherical curves and its applications. (English summary) 2001i:53124
Kupitz, Yaakov S. (*with* Martini, Horst) On the isoperimetric inequalities for Reuleaux polygons. (English summary) 2001h:52006
Makeev, V. V. On an affine-invariant metric on the set of plane convex compacta. (Russian. English and Russian summaries) 2001e:52007
Martini, Horst *see* Kupitz, Yaakov S., 2001h:52006

**Nakamigawa, Tomoki** A generalization of diagonal flips in a convex polygon. (English summary) **2001d:52035**
**Patsuk, V. N.** Construction of an optimal lattice network on a plane. (Russian. English summary) **2001h:52015**
**Rosenfeld, Moshe[1]** Piercing convex polygons in the plane. **2001d:52010**
**Sharir, Micha** *see* **Aronov, Boris et al., 2001m:52035**

## 52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

**Callahan, Kevin** (*with* Hann, Kathy) An Euler-type volume identity. (English summary) **2001h:52002**
**Dekster, Boris V.** Each convex body in $E^3$ symmetric about a plane can be illuminated by 8 directions. **2001m:52003**
**Hangan, Theodor** (*with* Itoh, Jin-ichi; Zamfirescu, Tudor) Acute triangulations. (English summary)
**Hann, Kathy** *see* **Callahan, Kevin, 2001h:52002**
**Itoh, Jin-ichi** *see* **Hangan, Theodor et al.**
**Lassak, Marek** Relationships between widths of a convex body and of an inscribed parallelotope. (English summary) **2001m:52004**
**Vîlcu, Costin** On two conjectures of Steinhaus. (English summary) **2001f:52005**
**Zamfirescu, Tudor** *see* **Hangan, Theodor et al.**

### Items with secondary classifications in 52A15

**Amenta, Nina** (*with* Kolluri, Ravi Krishna) Accurate and efficient unions of balls. (English summary) (*see* **2001i:68009**)
**Bognár Máthé, Katalin** (*with* Böröczky, Károly) Regular polyhedra and Hajós polyhedra. **2001c:52023**
**Böröczky, Károly** *see* **Bognár Máthé, Katalin, 2001c:52023**
**Kolluri, Ravi Krishna** *see* **Amenta, Nina, (2001i:68009)**
**Kranakis, Evangelos** (*with* Krizanc, Danny; Maheshwari, Anil; Sack, Jörg-Rüdiger; Urrutia, Jorge) Ray shooting from convex ranges. (English summary) **2001i:68158**
**Krizanc, Danny** *see* **Kranakis, Evangelos et al., 2001i:68158**
**Lebedeva, N. D.** Characterization of a class of bodies in $\mathbf{R}^3$. (Russian. English and Russian summaries) **2001d:52016**
**Maheshwari, Anil** *see* **Kranakis, Evangelos et al., 2001i:68158**
**Makeev, V. V.** Three-dimensional polytopes inscribed in and circumscribed about convex compacta. (Russian. Russian summary) **2001k:52017**
**Sack, Jörg-Rüdiger** *see* **Kranakis, Evangelos et al., 2001i:68158**
**Schlenker, Jean-Marc** Dihedral angles of convex polyhedra. (English summary) **2001b:52015**
**Sprumont, Yves** A note on ordinally equivalent Pareto surfaces. (English summary) **2001g:91056**
**Urrutia, Jorge** *see* **Kranakis, Evangelos et al., 2001i:68158**

## 52A20 Convex sets in $n$ dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

**Andronov, V. G.** *see* **Belousov, E. G., 2001g:52006**
**Bair, Jacques** (*with* Dupin, Jean-Claude) Séparation libre et séparation conique. (English and French summaries) [Free separation and conical separation] **2001f:52006**
**Balaj, Mircea** Helly type theorems for convex sets with unbounded intersection. (English summary) **2001d:52004**
— Combinatorial properties of convex cones in $\mathbf{R}^n$. (English summary) **2001j:52003**
**Belousov, E. G.** (*with* Andronov, V. G.) On algebraic properties of sets that do not contain lines. (Russian) **2001g:52006**
**Boltyanskii, Vladimir Grigor'evich** (*with* Martini, Horst; Soltan, V.) On Grünbaum's conjecture about inner illumination of convex bodies. (English summary) **2001f:52007**
— (*with* Morales Amaya, E.) Cardinalities of primitive fixing systems for convex bodies. (English summary) **2001d:52005**
— (*with* Martini, Horst) Carathéodory's theorem and $H$-convexity. (English summary) **2001j:52004**
**Böröczky, Károly, Jr.** About the error term for best approximation with respect to the Hausdorff related metrics. (English summary) **2001i:52002**
**Campi, Stefano** Stability estimates for star bodies in terms of their intersection bodies. (English summary) **2001c:52003**
**Colesanti, Andrea** (*with* Hug, Daniel) Hessian measures of semi-convex functions and applications to support measures of convex bodies. (English summary) **2001f:52008**
**Dupin, Jean-Claude** *see* **Bair, Jacques, 2001f:52006**
**Evdokimov, A. V.** (*with* Zalgaller, V. A.) On the convex hull of several compacta. (Russian. English and Russian summaries) **2001d:52006**
**Goodey, Paul** (*with* Jiang, Weigong) Minkowski sums of three dimensional projections of convex bodies. (English summary) **2001j:52005**
**Groemer, H.** Stability theorems for two measures of symmetry. (English summary) **2001e:52002**
**Guo, Qi[1]** (*with* Kaijser, Sten) On the distance between convex bodies. (English summary) **2001g:52007**
**Haab, François** Convex bodies of constant brightness and a new characterisation of spheres. (English summary) **2001k:52008**
**Hug, Daniel** *see* **Colesanti, Andrea, 2001f:52008**
**Jiang, Weigong** *see* **Goodey, Paul, 2001j:52005**
**Kaijser, Sten** *see* **Guo, Qi[1], 2001g:52007**
**Kohlmann, Peter** Curvature measures and stability. (English summary) **2001m:52005**
**Makeev, V. V.** (*with* Mukhin, A. S.) On the existence of a common section with given properties for several convex compacta. (Russian. English and Russian summaries) **2001e:52003**
**Martini, Horst** *see* **Boltyanskii, Vladimir Grigor'evich et al., 2001f:52007** *and* **2001j:52004**
**Morales Amaya, E.** *see* **Boltyanskii, Vladimir Grigor'evich, 2001d:52005**
**Moussafir, Jacques-Olivier** Sails and Hilbert bases. (Russian. Russian summary) **2001d:52007**
**Mukhin, A. S.** *see* **Makeev, V. V., 2001e:52003**
**Rudelson, M.** Distances between non-symmetric convex bodies and the $MM^*$-estimate. (English summary) **2001d:52008**
**Schneider, Rolf** Convex bodies in exceptional relative positions. (English summary) **2001b:52003**
**Soltan, V.** *see* **Boltyanskii, Vladimir Grigor'evich et al., 2001f:52007**
**Weißbach, Bernulf** Euklidische $d$-Simplexe mit inhaltsgleichen $k$-Seiten. (English summary) [Euclidean $d$-simplices whose $k$-faces have the same $k$-volume] **2001j:52006**
**Zalgaller, V. A.** *see* **Evdokimov, A. V., 2001d:52006**
**Zhang, Gaoyong** Intersection bodies and polytopes. (English summary) **2001i:52003**

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**Allaart, Pieter C.** A sharp nonconvexity bound for partition ranges of vector measures with atoms. (English summary) **2001j:28009**
**Barker, George Phillip** Idempotents in the universal compactification of a cone. (English summary) **2001j:22003**
**Behrends, Ehrhard** On Bárány's theorems of Carathéodory and Helly type. (English summary) **2001g:46023**
**Bezdek, Károly** On rhombic dodecahedra. (English summary) **2001m:52028**
**Chai, Y. D.** *see* **Kim, Yong Il, 2001d:52009**
**Cokus, Shawn** (*with* Klee, Victor) Decomposition theorems for conditional sign-solvability and sign-solvability of general systems. (English summary) **2001a:15004**
**Dahl, Geir** Majorization polytopes. (English summary) **2001a:15027**
**Dem'yanov, V. F.** (*with* Kaprary, E.) Minimality of convex sets equivalent on a cone. (English summary) **2001m:49020**
— Exhausters of a positively homogeneous function. (English summary) **2001e:49028**
**Dudov, S. I.** (*with* Zlatorunskaya, I. V.) A uniform estimate for a convex compact set by a ball of arbitrary norm. (Russian. Russian summary) **2001m:41036**
**Fathi, Albert** Une caractérisation des stades à virages circulaires. (English and French summaries) [A characterization of stadiums with circular turns] **2001k:52014**
**Gardner, Richard J.** (*with* Koldobsky, Alexander; Schlumprecht, Th.) An analytic solution to the Busemann-Petty problem on sections of convex bodies. (English summary) **2001b:52011**
**Ivanov, A. O.** Minimal weighted planar binary trees. (Russian. English and Russian summaries) **2001e:05032**
**Kaprary, E.** *see* **Dem'yanov, V. F., 2001m:49020**
**Kim, Yong Il** (*with* Chai, Y. D.) Boundary at infinity for Minkowski spaces. (English summary) **2001d:52009**
**Kiss, György** Illumination problems and codes. (English summary) **2001f:51017**
**Klee, Victor** *see* **Cokus, Shawn, 2001a:15004**
**Koldobsky, Alexander** A functional analytic approach to intersection bodies. (English summary) **2001m:52007**
— *see also* **Gardner, Richard J. et al., 2001b:52011**
**Makai, Endre, Jr.** (*with* Vrećica, Siniša; Živaljević, Rade) Plane sections of convex bodies of maximal volume. (English summary) **2001j:52008**
**Makeev, V. V.** Some special configurations of planes that are associated with convex compacta. (Russian. English and Russian summaries) **2001f:52013**
**Mendez, Osvaldo** (*with* Reichel, Wolfgang) Electrostatic characterization of spheres. (English summary) **2001a:31005**
**Meyer, Mathieu** (*with* Werner, Elisabeth) On the $p$-affine surface area. **2001g:52012**
**Moszyńska, Maria** Looking for selectors of star bodies. (English summary) **2001k:52010**
**Reichel, Wolfgang** *see* **Mendez, Osvaldo, 2001a:31005**
**Schlumprecht, Th.** *see* **Gardner, Richard J. et al., 2001b:52011**
**Soranzo, Alessandro** On a symmetry problem for polygons. (English summary) **2001c:52002**
**Talata, István** On translational clouds for a convex body. (English summary) **2001f:52041**
**Thompson, Anthony C.** Geometric means of ellipsoids and other convex bodies. (English summary) **2001k:47023**
**Tuzhilin, Alekseĭ Avgustinovich** Complete classification of locally minimal binary trees with a regular boundary whose dual triangulations are skeletons. (Russian. English and Russian summaries) **2001f:05050**
**Verovic, Patrick** Un résultat de rigidité pour les métriques de Hilbert. [A rigidity result for Hilbert metrics] (*see* **2001i:53004**)
**Vrećica, Siniša** *see* **Makai, Endre, Jr. et al., 2001j:52008**
**Werner, Elisabeth** *see* **Meyer, Mathieu, 2001g:52012**
**Zhang, Gaoyong** A positive solution to the Busemann-Petty problem in $\mathbf{R}^4$. **2001b:52010**
**Zhang, Shu Zhong** Global error bounds for convex conic problems. (English summary) **2001j:90101**
**Živaljević, Rade** *see* **Makai, Endre, Jr. et al., 2001j:52008**
**Zlatorunskaya, I. V.** *see* **Dudov, S. I., 2001m:41036**

## 52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

**Chai, Y. D.** *see* **Kim, Yong Il, 2001d:52009**
**Kim, Yong Il** (*with* Chai, Y. D.) Boundary at infinity for Minkowski spaces. (English summary) **2001d:52009**
**Milman, Vitali D.** (*with* Pajor, Alain) Entropy and asymptotic geometry of non-symmetric convex bodies. (English summary) **2001e:52004**
**Pajor, Alain** *see* **Milman, Vitali D., 2001e:52004**
**Zamfirescu, Tudor** Dense ambiguous loci and residual cut loci. (English summary) **2001j:52007**

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**Balashov, M. V.** (*with* Polovinkin, E. S.) $M$-strongly convex subsets and their generating sets. (Russian. Russian summary) **2001e:46018**
**Banakh, T. O.** (*with* Kawamura, Kazuhiro; Sakai, Katsuro) The direct limits of the Banach-Mazur compacta. (English summary) **2001j:46006**

**Baronti, M.** (*with* Casini, Emanuele; Papini, Pier Luigi) On average distances and the geometry of Banach spaces. **2001g:46031**
**Burger, Markus** Zonoids and conditionally positive definite functions. (English summary) **2001k:52004**
**Casini, Emanuele** *see* **Baronti, M. et al., 2001g:46031**
**Hinrichs, Aicke** The average distance property of classical Banach spaces. (English summary) **2001g:46030**
**Hug, Daniel** (*with* Last, Günter) On support measures in Minkowski spaces and contact distributions in stochastic geometry. (English summary) **2001g:60023**
**Kato, Mikio** *see* **Saito, Kichi-Suke et al., 2001d:46024**
**Kawamura, Kazuhiro** *see* **Banakh, T. O. et al., 2001j:46006**
**Last, Günter** *see* **Hug, Daniel, 2001g:60023**
**Makeev, V. V.** Three-dimensional polytopes inscribed in and circumscribed about convex compacta. (Russian. Russian summary) **2001k:52017**
**Papini, Pier Luigi** *see* **Baronti, M. et al., 2001g:46031**
**Polovinkin, E. S.** *see* **Balashov, M. V., 2001e:46018**
**Saito, Kichi-Suke** (*with* Kato, Mikio; Takahashi, Yasuji) Von Neumann-Jordan constant of absolute normalized norms on $\mathbf{C}^2$. (English summary) **2001d:46024**
**Sakai, Katsuro** *see* **Banakh, T. O. et al., 2001j:46006**
**Takahashi, Yasuji** *see* **Saito, Kichi-Suke et al., 2001d:46024**
**Voigt, Jürgen** A concentration of mass property for isotropic convex bodies in high dimensions. (English summary) **2001i:52013**

## 52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

**Böröczky, Károly, Jr.** (*with* Henk, Martin) Random projections of regular polytopes. (English summary) **2001b:52004**
**Duma, Andrei** (*with* Stoka, Marius I.) Geometrical probabilities for convex test bodies. II. (English summary) **2001b:52005**
— (*with* Stoka, Marius I.) Geometrical probabilities for convex test bodies. III. (English summary) **2001k:52009**
**Gyachyauskas, Ė.** Standardization of distributions of chord lengths and distances inside oval domains. (Russian. Russian and Lithuanian summaries)
**Henk, Martin** *see* **Böröczky, Károly, Jr., 2001b:52004**
**Klain, Daniel A.** (*with* Rota, Gian-Carlo) ★ Introduction to geometric probability. (English summary) **2001f:52009**
**Reitzner, Matthias** Inequalities for convex hulls of random points. (English summary) **2001i:52004**
**Rota, Gian-Carlo** *see* **Klain, Daniel A., 2001f:52009**
**Stoka, Marius I.** *see* **Duma, Andrei, 2001b:52005** *and* **2001k:52009**
**Volchkov, Vit. V.** On polyhedra with the local Pompeiu property. (Russian) **2001i:52005**

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**Bárány, Imre** Sylvester's question: the probability that $n$ points are in convex position. (English summary) **2001a:60010**
— The technique of $M$-regions and cap coverings: a survey. (English summary) **2001k:52001**
**Beneš, Viktor** (*with* Gokhale, Arun M.) Planar anisotropy revisited. (English summary) **2001f:60013**
**Bonetti, M.** (*with* Vitale, Richard A.) Asymptotic behavior of a set-statistic. (English summary) **2001a:60037**
**Bosetto, Elena** Problems of Buffon type for random semispheres and random disks in $E_3$. (English summary) (*see* **2001h:00022**)
**Campi, Stefano** (*with* Colesanti, Andrea; Gronchi, Paolo) A note on Sylvester's problem for random polytopes in a convex body. (English summary) **2001d:52014**
**Cao, Jin** (*with* Worsley, Keith J.) The detection of local shape changes via the geometry of Hotelling's $T^2$ fields. (English summary) **2001g:60121**
**Capasso, Vincenzo** (*with* Micheletti, Alessandra) The local mean volume and surface densities for inhomogeneous random sets. (English summary) **2001k:60012**
**Chen, Beifang** Minkowski algebra. I. A convolution theory of closed convex sets and relatively open convex sets. (English summary) **2001j:52009**
**Colesanti, Andrea** *see* **Campi, Stefano et al., 2001d:52014**
**Conserva, Vincenzo** (*with* Rizzo, Sebastiano) Some problems of geometric probability in a weak magnetic field. (English summary) (*see* **2001h:00022**)
**Duma, Andrei** (*with* Stoka, Marius I.) Geometric probabilities for convex bodies of revolution in the Euclidean space $E_3$. (English summary) (*see* **2001h:00022**)
**Dwyer, R. A.** Voronoi diagrams and convex hulls of random moving points. (English summary) **2001a:60012**
**Eisenberg, Bennett** (*with* Sullivan, Rosemary) Crofton's differential equation. **2001g:60021**
**Enns, Ernest** Finding the volume of a mountain using stereological methods. (English summary) (*see* **2001h:00022**)
**Gokhale, Arun M.** *see* **Beneš, Viktor, 2001f:60013**
**Gronchi, Paolo** *see* **Campi, Stefano et al., 2001d:52014**
**Gual-Arnau, Ximo** A stereological view of total curvatures. (Spanish. Spanish summary) **2001k:53144**
**Hess, Christian** The distribution of unbounded random sets and the multivalued strong law of large numbers in nonreflexive Banach spaces. (English summary) **2001c:60007**
**Horálek, Vratislav** Stereology of dihedral angles. (English summary) **2001i:60014**
**Hug, Daniel** (*with* Last, Günter) On support measures in Minkowski spaces and contact distributions in stochastic geometry. (English summary) **2001g:60023**
**Isokawa, Yukinao** Poisson-Voronoi tessellations in three-dimensional hyperbolic spaces. (English summary) **2001j:60022**
— Geometric probabilities concerning large random triangles in the hyperbolic plane. (English summary) **2001f:60014**
**Kim, Yong Il** Integral formulas for spherical curves and its applications. (English summary) **2001i:53124**
**Last, Günter** *see* **Hug, Daniel, 2001g:60023**
**Lavie, Marc** Characteristic function for random sets and convergence of sums of independent random sets. (English summary) **2001f:26039**
**Mathai, A. M.** ★ An introduction to geometrical probability. **2001a:60014**
— Buffon type problem in the Euclidean space $\mathbf{R}^3$. (English summary) **2001b:60018**
— Distributions of random simplices through Jacobians of matrix transformations. (English summary) **2001m:60023**
**Micheletti, Alessandra** *see* **Capasso, Vincenzo, 2001k:60012**
**Nielsen, Jørgen** The distribution of volume reductions induced by isotropic random projections. (English summary) **2001b:60019**
**Pettineo, Maria** On a problem of Buffon type for triangular lattices and a "non-small" needle. (English summary) (*see* **2001h:00022**)
**Rizzo, Sebastiano** *see* **Conserva, Vincenzo, (2001h:00022)**
**Rogers, Allen D.** Lower bounds on strip discrepancy for nonatomic coloringa. (English summary) **2001g:11126**
**Santoro, Giulio** Measurability of a family of systems consisting of a point and $n$ hyperplanes in affine space $A_n$. (Italian. English summary) **2001k:53145**
**Schladitz, Katja** Estimation of the intensity of stationary flat processes. (English summary) **2001b:60020**
**Schneider, Rolf** Mixed functionals of convex bodies. (English summary) **2001i:52011**
**Schütt, Carsten** (*with* Werner, Elisabeth) Random polytopes with vertices on the boundary of a convex body. (English and French summaries) **2001j:60027**
**Stoka, Marius I.** *see* **Conference: Stochastic Geometry, Convex Bodies and Empirical Measures, 2001h:00022** *and* **Duma, Andrei, (2001h:00022)**
**Sullivan, Rosemary** *see* **Eisenberg, Bennett, 2001g:60021**
**Vahidi-Asl, Mohammad Q.** Covering a surface. (English and Persian summaries) **2001e:60024**
**Vitale, Richard A.** *see* **Bonetti, M., 2001a:60037**
**Wagner, Uli** (*with* Welzl, Emo) Origin-embracing distributions or a continuous analogue of the upper bound theorem. (English summary) (*see* **2001i:68009**)
**Welzl, Emo** *see* **Wagner, Uli, (2001i:68009)**
**Werner, Elisabeth** *see* **Schütt, Carsten, 2001j:60027**
**Worsley, Keith J.** *see* **Cao, Jin, 2001g:60121**

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**Stochastic Geometry, Convex Bodies and Empirical Measures** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
**Mazara del Vallo** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**

## 52A27 Approximation by convex sets

**Böröczky, Károly, Jr.** Approximation of general smooth convex bodies. **2001g:52008**
**Braß, Peter** (*with* Lassak, Marek) Problems on approximation by triangles.
**Ding, Ren** (*with* Li, Ying-zi; Xu, Chang Qin) A note on Hausdorff distance. (English and Chinese summaries)
**Efremov, R. V.** Estimation of the efficiency of an adaptive algorithm for the approximation of convex smooth bodies in the two-dimensional case. (Russian. Russian summary) **2001i:52006**
**Lassak, Marek** *see* **Braß, Peter**
**Li, Ying-zi** *see* **Ding, Ren et al.**
**Lopez, Mario A.** (*with* Reisner, Shlomo) Algorithms for polyhedral approximation of multidimensional ellipsoids. (English summary) **2001a:52004**
— (*with* Reisner, Shlomo) Efficient approximation of convex polygons. (English summary) **2001h:52003**
**Ludwig, Monika** Asymptotic approximation of smooth convex bodies by general polytopes. (English summary) **2001b:52006**
**Reisner, Shlomo** *see* **Lopez, Mario A., 2001a:52004** *and* **2001h:52003**
**Treatman, Stefan** (*with* Wickham, Cameron) Constructible approximations of regular polygons.
**Wickham, Cameron** *see* **Treatman, Stefan**
**Xu, Chang Qin** *see* **Ding, Ren et al.**

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**Agarwal, Pankaj K.** (*with* Varadarajan, Kasturi R.) Efficient algorithms for approximating polygonal chains. (English summary) **2001c:52012**
**Alt, Helmut** (*with* Guibas, Leonidas J.) Discrete geometric shapes: matching, interpolation, and approximation. (English summary) (*see* **2001d:68226**)
**Bajaj, Chanderjit L.** *see* **Xu, Guo-liang et al., 2001f:65022** *and* **2001f:65023**
**Bárány, Imre** (*with* Kantor, Jean-Michel) Universal counting of lattice points in polytopes. (English summary) **2001e:52021**
— The technique of $M$-regions and cap coverings: a survey. (English summary) **2001k:52001**
**Behrends, Ehrhard** *see* **Mädler, F. et al., 2001k:82107**
**Böröczky, Károly, Jr.** The error of polytopal approximation with respect to the symmetric difference metric and the $L_p$ metric. (English summary) **2001c:65023**
**Chu, Chuan I** *see* **Xu, Guo-liang et al., 2001f:65023**
**Dilworth, Stephen J.** (*with* Howard, Ralph; Roberts, James W.) Extremal approximately convex functions and estimating the size of convex hulls. (English summary) **2001c:26015**
— (*with* Howard, Ralph; Roberts, James W.) On the size of approximately convex sets in normed spaces. (English summary) **2001h:46010**
**Guibas, Leonidas J.** *see* **Alt, Helmut, (2001d:68226)**
**Guo, Qi**[1] (*with* Kaijser, Sten) On the distance between convex bodies. (English summary) **2001g:52007**
**Howard, Ralph** *see* **Dilworth, Stephen J. et al., 2001c:26015** *and* **2001h:46010**
**Kaijser, Sten** *see* **Guo, Qi**[1]**, 2001g:52007**
**Kantor, Jean-Michel** *see* **Bárány, Imre, 2001e:52021**
**Knorr, Karsten** *see* **Mädler, F. et al., 2001k:82107**
**Ligun, A. A.** (*with* Shumeĭko, A. A.) On the description of convex curves. (Russian. English and Russian summaries) **2001c:65025**

**Mädler, F.** (*with* Behrends, Ehrhard; Knorr, Karsten) A geometric centroid principle and its application. (English summary) **2001k:82107**
**Makeev, V. V.** (*with* Mukhin, A. S.) On the existence of a common section with given properties for several convex compacta. (Russian. English and Russian summaries) **2001e:52003**
**Mirică, Ştefan** Generalized derived cones and other local convex approximation of sets. (English summary)
**Mukhin, A. S.** *see* **Makeev, V. V., 2001e:52003**
**Roberts, James W.** *see* **Dilworth, Stephen J. et al., 2001c:26015** *and* **2001h:46010**
**Shumelko, A. A.** *see* **Ligun, A. A., 2001c:65025**
**Varadarajan, Kasturi R.** *see* **Agarwal, Pankaj K., 2001c:52012**
**Xu, Guo-liang** (*with* Bajaj, Chanderjit L.; Xue, Wei Min[1]) Regular algebraic curve segments. I. Definitions and characteristics. (English summary) **2001f:65022**
— (*with* Bajaj, Chanderjit L.; Chu, Chuan I) Regular algebraic curve segments. II. Interpolation and approximation. (English summary) **2001f:65023**
**Xue, Wei Min[1]** *see* **Xu, Guo-liang et al., 2001f:65022**

## 52A30 Variants of convex sets (star-shaped, $(m, n)$-convex, etc.)

**Beltagy, M.** (*with* El-Araby, A.) On convex and starshaped hulls. (English summary) **2001i:52007**
**Breen, Marilyn** Unions of sets starshaped via staircase paths or via paths of bounded length. (English summary) **2001a:52005**
— Krasnosel'skiĭ numbers and non simply connected orthogonal polygons. (English summary) **2001g:52009**
— Sets of locally maximal visibility and finite unions of starshaped sets. (English summary) **2001f:52010**
**Cel, J.** A representation formula for weakly compact starshaped sets. (English summary) **2001m:52006**
**Dulio, Paolo** (*with* Peri, Carla) Invariant valuations on spherical star sets. (English summary) **2001i:52008**
**El-Araby, A.** *see* **Beltagy, M., 2001i:52007**
**Meteĭ'skiĭ, N. N.** (*with* Naĭdenko, V. G.) Partially convex hulls in the space $\mathbf{R}^n$. (Russian. English and Russian summaries) **2001h:52004**
**Moszyńska, Maria** Looking for selectors of star bodies. (English summary) **2001k:52010**
**Naĭdenko, V. G.** *see* **Meteĭ'skiĭ, N. N., 2001h:52004**
**Peri, Carla** *see* **Dulio, Paolo, 2001i:52008**

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**Asano, Tetsuo** (*with* Ghosh, Subir Kumar; Shermer, Thomas C.) Visibility in the plane. (*see* **2001d:68226**)
**Breen, Marilyn** Visible shorelines containing at least $k$ vertices. (English summary) **2001f:52011**
**Cel, J.** Representations of starshaped sets in normed linear spaces. (English summary) **2001c:46020**
**Cristescu, Gabriela** *see* **Lupşa, Liana**
**Dolzmann, Georg** (*with* Kirchheim, Bernd; Müller, Stefan[1]; Šverák, Vladimir) The two-well problem in three dimensions. (English summary) **2001k:49020**
**Everett, Hazel** (*with* Hoàng, Chính T.; Kilakos, Kyriakos; Noy, Marc) Planar segment visibility graphs. (English summary) **2001d:05124**
**Friedman, Erich** $n$-vex shapes. **2001f:52039**
**Ghosh, Subir Kumar** *see* **Asano, Tetsuo et al., (2001d:68226)**
**Hoàng, Chính T.** *see* **Everett, Hazel et al., 2001d:05124**
**Kilakos, Kyriakos** *see* **Everett, Hazel et al., 2001d:05124**
**Kirchheim, Bernd** *see* **Dolzmann, Georg et al., 2001k:49020**
**Kryczka, Andrzej** (*with* Prus, Stanisław) Separated sequences in nonreflexive Banach spaces. (English summary) **2001c:46024**
**Litvak, A. E.** Kahane-Khinchin's inequality for quasi-norms. (English summary) **2001f:46013**
**Lupşa, Liana** (*with* Cristescu, Gabriela) $((S, s), (\Lambda_i)_{i\in I}, A, B, r)$ convexity at a point and $((S, s), (\Lambda_i)_{i\in I}, A, B, r)$ starlike sets. (English summary)
**Müller, Stefan[1]** *see* **Dolzmann, Georg et al., 2001k:49020**
**Noy, Marc** *see* **Everett, Hazel et al., 2001d:05124**
**Okon, T.** Choquet theory in metric spaces. (English summary) **2001d:46020**
**Penot, Jean-Paul** (*with* Zălinescu, Constantin) Harmonic sum and duality. (English summary) **2001i:49061**
**Prus, Stanisław** *see* **Kryczka, Andrzej, 2001c:46024**
**Shermer, Thomas C.** *see* **Asano, Tetsuo et al., (2001d:68226)**
**Šverák, Vladimir** *see* **Dolzmann, Georg et al., 2001k:49020**
**Zălinescu, Constantin** *see* **Penot, Jean-Paul, 2001i:49061**

## 52A35 Helly-type theorems and geometric transversal theory

**Aronov, Boris** (*with* Goodman, Jacob E.; Pollack, Richard M.; Wenger, Rephael) A Helly-type theorem for hyperplane transversals to well-separated convex sets. (English summary) **2001k:52011**
— (*with* Goodman, Jacob E.; Pollack, Richard M.; Wenger, Rephael) On the Helly number for hyperplane transversals to unit balls. (English summary) **2001g:52010**
**Bajaj, Mircea** (*with* Nikodem, Kazimierz) Remarks on Bárány's theorem and affine selections. (English summary) **2001g:52011**
**Breen, Marilyn** Visible shorelines containing at least $k$ vertices. (English summary) **2001f:52011**
**Dol'nikov, V. L.** Generalized transversals and generalized convexity. (Russian) **2001b:52007**
— (*with* Igonin, S. A.) Theorems of Helly-Gallai type. (Russian. English and Russian summaries) **2001e:52005**
**Goodman, Jacob E.** *see* **Aronov, Boris et al., 2001g:52010** *and* **2001k:52011**
**Igonin, S. A.** *see* **Dol'nikov, V. L., 2001e:52005**
**Karasëv, R. N.** On transversals of families of translates of a two-dimensional convex compactum. (Russian. English and Russian summaries) **2001f:52012a**
— Transversals for families of translates of a two-dimensional convex compact set. (English summary) **2001f:52012b**
**Makai, Endre, Jr.** (*with* Vrećica, Siniša; Živaljević, Rade) Plane sections of convex bodies of maximal volume. (English summary) **2001j:52008**
**Makeev, V. V.** Some special configurations of planes that are associated with convex compacta. (Russian. English and Russian summaries) **2001f:52013**
**Nikodem, Kazimierz** *see* **Bajaj, Mircea, 2001g:52011**
**Pollack, Richard M.** *see* **Aronov, Boris et al., 2001g:52010** *and* **2001k:52011**
**Revenko, S.** Helly-type theorems on common supports for $K$-disjoint families of convex bodies in the plane. (English, Russian and Moldavian summaries) **2001i:52009**
**Rosenfeld, Moshe[1]** Piercing convex polygons in the plane. **2001d:52010**
**Vrećica, Siniša** *see* **Makai, Endre, Jr. et al., 2001j:52008**
**Wenger, Rephael** *see* **Aronov, Boris et al., 2001g:52010** *and* **2001k:52011**
**Živaljević, Rade** *see* **Makai, Endre, Jr. et al., 2001j:52008**

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**Baladze, Ê. D.** *see* **Boltyanskiĭ, Vladimir Grigor'evich, 2001k:52002**
**Balaj, Mircea** Helly type theorems for convex sets with unbounded intersection. (English summary) **2001d:52004**
— Combinatorial properties of convex cones in $\mathbf{R}^n$. (English summary) **2001j:52003**
**Behrends, Ehrhard** On Bárány's theorems of Carathéodory and Helly type. (English summary) **2001g:46023**
**Boltyanskiĭ, Vladimir Grigor'evich** (*with* Baladze, Ê. D.) ★ Проблема Секефальви-Надя в комбинаторной геометрии. (Russian. English and Russian summaries) [The Szökefalvi-Nagy problem in combinatorial geometry] **2001k:52002**
**Breen, Marilyn** Unions of sets starshaped via staircase paths or via paths of bounded length. (English summary) **2001a:52005**
**Cel, J.** Support functional and dual cone with application. (English summary) **2001f:46006**
**Klain, Daniel A.** (*with* Rota, Gian-Carlo) ★ Introduction to geometric probability. (English summary) **2001f:52009**
**Rota, Gian-Carlo** *see* **Klain, Daniel A., 2001f:52009**

## 52A37 Other problems of combinatorial convexity

**Dalla, Leoni** (*with* Larman, D. G.; Mani-Levitska, P.; Zong, C.) The blocking numbers of convex bodies. (English summary) **2001d:52011**
**Guiduli, B.** (*with* Rosenfeld, Moshe[1]) Ubiquitous angles in equiangular sets of lines. (English summary) **2001e:52006**
**Larman, D. G.** *see* **Dalla, Leoni et al., 2001d:52011**
**Mani-Levitska, P.** *see* **Dalla, Leoni et al., 2001d:52011**
**Martini, Horst** (*with* Soltan, V.) Primitive inner illuminating systems for convex bodies. (English summary) **2001d:52012**
**Rosenfeld, Moshe[1]** *see* **Guiduli, B., 2001e:52006**
**Smith, Warren D.** A lower bound for the simplexity of the $n$-cube via hyperbolic volumes. (English summary) **2001c:52004**
**Soltan, V.** *see* **Martini, Horst, 2001d:52012**
**Zong, C.** *see* **Dalla, Leoni et al., 2001d:52011**

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**Boltyanskiĭ, Vladimir Grigor'evich** (*with* Martini, Horst) Carathéodory's theorem and $H$-convexity. (English summary) **2001j:52004**
**Cokus, Shawn** (*with* Klee, Victor) Decomposition theorems for conditional sign-solvability and sign-solvability of general systems. (English summary) **2001a:15004**
**Dekster, Boris V.** Each convex body in $E^3$ symmetric about a plane can be illuminated by 8 directions. **2001m:52003**
**Dumitrescu, Adrian** Planar sets with few empty convex polygons. (English summary) **2001f:52037**
**Efrat, Alon** *see* **Aronov, Boris et al., 2001m:52035**
**Halperin, Dan** *see* **Aronov, Boris et al., 2001m:52035**
**Klain, Daniel A.** An Euler relation for valuations on polytopes. (English summary) **2001i:52021**
**Klee, Victor** *see* **Cokus, Shawn, 2001a:15004**
**Martini, Horst** *see* **Boltyanskiĭ, Vladimir Grigor'evich, 2001j:52004**
**Sharir, Micha** *see* **Aronov, Boris et al., 2001m:52035**

## 52A38 Length, area, volume [see also 26B15, 28A75, 49Q20]

**Bárány, Imre** (*with* Kantor, Jean-Michel) On the number of lattice free polytopes. (English summary) **2001c:52005**
**Cho, Eungchun** *see* **Cho, Yunhi**
**Cho, Yunhi** (*with* Cho, Eungchun) The volume of simplices clipped by a half space. (English summary)
**Gardner, Richard J.** (*with* Koldobsky, Alexander; Schlumprecht, Th.) An analytic solution to the Busemann-Petty problem on sections of convex bodies. (English summary) **2001b:52011**
**Haase, Christian** (*with* Ziegler, Günter M.) On the maximal width of empty lattice simplices. (English summary) **2001a:52006**
**Hernández Cifre, María A.** (*with* Salinas Martínez, G.; Segura Gomis, S.) Bounds for the area and width of lattice-constrained convex sets in the plane. (English summary) **2001k:52012**
**Kantor, Jean-Michel** *see* **Bárány, Imre, 2001c:52005**
**Koldobsky, Alexander** A functional analytic approach to intersection bodies. (English summary) **2001m:52007**
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**Makeev, V. V.** On an affine-invariant metric on the set of plane convex compacta. (Russian. English and Russian summaries) **2001e:52007**
**Meyer, Mathieu** (*with* Werner, Elisabeth) On the $p$-affine surface area. **2001g:52012**

**Nikonorov, Yu. G.** On two problems of convex geometry. (Russian. Russian summary) **2001b:52008**
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**Oleszkiewicz, Krzysztof** (*with* Pełczyński, Aleksander) Polydisc slicing in $\mathbf{C}^n$. (English summary) **2001f:52014**
**Pełczyński, Aleksander** *see* **Oleszkiewicz, Krzysztof, 2001f:52014**
**Sabitov, I. Kh.** The volume of a polyhedron as a function of the lengths of its edges. (Russian. English and Russian summaries) **2001f:52015**
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**Salinas Martínez, G.** *see* **Hernández Cifre, María A. et al., 2001k:52012**
**Schlumprecht, Th.** *see* **Gardner, Richard J. et al., 2001b:52011**
**Segura Gomis, S.** *see* **Hernández Cifre, María A. et al., 2001k:52012**
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**Zhang, Gaoyong** A positive solution to the Busemann-Petty problem in $\mathbf{R}^4$. **2001b:52010**
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**Avis, David** A revised implementation of the reverse search vertex enumeration algorithm. (English summary) **2001f:52030**
**Benediktovich, V. I.** (*with* Konovalov, O. L.; Sarvanov, V. I.) Construction of a body in a regular polyhedron in $\mathbf{R}^3$. (Russian. English and Russian summaries) **2001e:52009**
**Bezdek, Károly** A lower bound for the mean width of Voronoi polyhedra of unit ball packings in $\mathbf{E}^3$. (English summary) **2001e:52034**
**Bollobás, Béla** (*with* Brightwell, Graham R.) Convex bodies, graphs and partial orders. **2001c:52016**
**Borisenko, A. A.** (*with* Vlasenko, D. I.) Asymptotic behavior of volumes of convex bodies in a Hadamard manifold. (Russian. English, Russian and Ukrainian summaries) **2001b:53034**
**Böröczky, Károly** (*with* Kertész, G.; Makai, Endre, Jr.) The minimum area of a simple polygon with given side lengths. (English summary) **2001e:51016**
**Brightwell, Graham R.** *see* **Bollobás, Béla, 2001c:52016**
**Büeler, Benno** (*with* Enge, Andreas; Fukuda, Komei) Exact volume computation for polytopes: a practical study. (English summary) **2001e:52025**
**Burger, Thomas** (*with* Gritzmann, Peter) Finding optimal shadows of polytopes. (English summary) **2001e:52011**
**Callahan, Kevin** (*with* Hann, Kathy) An Euler-type volume identity. (English summary) **2001h:52002**
**Campi, Stefano** Stability estimates for star bodies in terms of their intersection bodies. (English summary) **2001c:52003**
**Chan, Clara S.** (*with* Robbins, David P.; Yuen, David S.) On the volume of a certain polytope. (English summary) **2001d:52022**
**Enge, Andreas** *see* **Büeler, Benno et al., 2001e:52025**
**Evdokimov, A. V.** (*with* Zalgaller, V. A.) On the convex hull of several compacta. (Russian. English and Russian summaries) **2001d:52006**
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**Giannopoulos, A. A.** (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**
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**Hann, Kathy** *see* **Callahan, Kevin, 2001h:52002**
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**Kohlmann, Peter** Curvature measures and stability. (English summary) **2001m:52005**
**Konovalov, O. L.** *see* **Benediktovich, V. I. et al., 2001e:52009**
**Makai, Endre, Jr.** (*with* Vrećica, Siniša; Živaljević, Rade) Plane sections of convex bodies of maximal volume. (English summary) **2001j:52008**
— *see also* **Böröczky, Károly et al., 2001e:51016**
**McMullen, Peter** Simplices with equiareal faces. (English summary) **2001f:52025**
**Milman, Vitali D.** *see* **Giannopoulos, A. A., 2001m:28001**
**Qian, Ming Zhong** An inequality relating the $k$-modulus of convexity of a Hilbert space $X$ and that of $L_p(X)$. (Chinese. English and Chinese summaries) **2001f:46027**
**Robbins, David P.** *see* **Chan, Clara S. et al., 2001d:52022**
**Sabitov, I. Kh.** On some recent results in the metric theory of polyhedra. (English summary) **2001m:52014**
**Sarvanov, V. I.** *see* **Benediktovich, V. I. et al., 2001e:52009**
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**Steinwart, Ingo** Entropy of $C(K)$-valued operators. (English summary) **2001a:47022**
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**Yuen, David S.** *see* **Chan, Clara S. et al., 2001d:52022**
**Zalgaller, V. A.** *see* **Evdokimov, A. V., 2001d:52006**
**Živaljević, Rade** *see* **Makai, Endre, Jr. et al., 2001j:52008**

## 52A39 Mixed volumes and related topics

**Alesker, S.** On P. McMullen's conjecture on translation invariant valuations. **2001k:52013**
**Chen, Beifang** Minkowski algebra. I. A convolution theory of closed convex sets and relatively open convex sets. (English summary) **2001j:52009**
**Cieślak, Waldemar** (*with* Reséndis O., L. F.) Mixed area of convex bodies. (English summary) **2001e:52008**
**Khovanskiĭ, Askol'd G.** Newton polyhedra, a new formula for mixed volume, product of roots of a system of equations. (English summary) **2001d:52013**
**Meyer, Mathieu** (*with* Reisner, Shlomo) A geometric proof of some inequalities involving mixed volumes. (English summary) **2001i:52010**
**Reisner, Shlomo** *see* **Meyer, Mathieu, 2001i:52010**
**Reséndis O., L. F.** *see* **Cieślak, Waldemar, 2001e:52008**
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**Dulio, Paolo** (*with* Peri, Carla) Invariant valuations on spherical star sets. (English summary) **2001i:52008**
**Evdokimov, A. V.** (*with* Zalgaller, V. A.) On the convex hull of several compacta. (Russian. English and Russian summaries) **2001d:52006**
**Farouki, Rida T.** (*with* Moon, Hwan Pyo; Ravani, Bahram) Algorithms for Minkowski products and implicitly-defined complex sets. (English summary) **2001f:65024**
**Gao, Tangan** (*with* Li, Tien-Yien) Mixed volume computation via linear programming. (English summary) **2001j:65026**
**Goodey, Paul** (*with* Jiang, Weigong) Minkowski sums of three dimensional projections of convex bodies. (English summary) **2001j:52005**
**Guo, Shu Guang** (*with* Lin, Bo) The metric sum properties for the altitudes and inradii of simplexes. (Chinese. English and Chinese summaries)
**Icking, Christian** (*with* Klein, Rolf; Ma, Lihong; Nickel, Stefan; Weißler, Ansgar) On bisectors for different distance functions. (English summary) **2001j:65027**
**Jiang, Weigong** *see* **Goodey, Paul, 2001j:52005**
**Klein, Rolf** *see* **Icking, Christian et al., 2001j:65027**
**Li, Tien-Yien** *see* **Gao, Tangan, 2001j:65026**
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**Ludwig, Monika** Upper semicontinuous valuations on the space of convex discs. (English summary) **2001g:52005**
**Lutwak, Erwin** (*with* Yang, Deane; Zhang, Gaoyong) A new ellipsoid associated with convex bodies. **2001j:52011**
**Ma, Lihong** *see* **Icking, Christian et al., 2001j:65027**
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**Ravani, Bahram** *see* **Farouki, Rida T. et al., 2001f:65024**
**Schnell, Uwe** (*with* Wills, Jörg M.) Densest packings of more than three $d$-spheres are nonplanar. (English summary) **2001i:52026**
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**Wills, Jörg M.** *see* **Schnell, Uwe, 2001i:52026**
**Yang, Deane** *see* **Lutwak, Erwin et al., 2001j:52011**
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**Zhang, Gaoyong** The affine Sobolev inequality. **2001m:53136**
— *see also* **Lutwak, Erwin et al., 2001j:52011**

## 52A40 Inequalities and extremum problems

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**Bezdek, Károly** (*with* Blekherman, Grigoriy) Danzer-Grünbaum's theorem revisited. (English summary) **2001e:52010**
**Blekherman, Grigoriy** *see* **Bezdek, Károly, 2001e:52010**
**Blind, G.** (*with* Blind, R.) Isoperimetric quotients for a decomposed convex body. (English summary) **2001m:52008**
**Blind, R.** *see* **Blind, G., 2001m:52008**
**Burger, Thomas** (*with* Gritzmann, Peter) Finding optimal shadows of polytopes. (English summary) **2001e:52011**
**Campi, Stefano** (*with* Colesanti, Andrea; Gronchi, Paolo) A note on Sylvester's problem for random polytopes in a convex body. (English summary) **2001d:52014**
**Chouikha, A. Raouf** Problems on polygons and Bonnesen-type inequalities. (English summary) **2001j:52010**
**Colesanti, Andrea** *see* **Campi, Stefano et al., 2001d:52014**
**Dalla, Leoni** A note on the Fermat-Torricelli point of a $d$-simplex. (English summary) **2001m:52009**
**Dar, Seannie** (*with* Gueron, Shay) A weighted Erdős-Mordell inequality. **2001m:52010**
**Daróczy Kiss, Endre** On the minimum intrinsic 1-volume of Voronoi cells in lattice unit sphere packings. (English summary) **2001e:52012**
**Fathi, Albert** Une caractérisation des stades à virages circulaires. (English and French summaries) [A characterization of stadiums with circular turns] **2001k:52014**
**Ghandehari, Mostafa** Controlling curvature in Minkowski planes. (English summary) **2001h:52005**
**Grandcolas, Michel** Problems on diameters of convexes in the plane. (English summary) **2001f:52016**
**Gritzmann, Peter** *see* **Burger, Thomas, 2001e:52011**
**Gronchi, Paolo** *see* **Campi, Stefano et al., 2001d:52014**
**Gueron, Shay** *see* **Dar, Seannie, 2001m:52010**
**Guo, Shu Guang** (*with* Lin, Bo) The metric sum properties for the altitudes and inradii of simplexes. (Chinese. English and Chinese summaries)
**Igonin, S. A.** (*with* Yanishevskiĭ, V. V.) On an extremal problem on the plane. (Russian) **2001c:52006**
**Juhnke, Friedrich** (*with* Sarges, Olaf) Minimal spherical shells and linear semi-infinite optimization. (English summary) **2001b:52012**
**Konovalov, O. L.** *see* **Benediktovich, V. I. et al., 2001e:52009**
**Kupitz, Yaakov S.** (*with* Martini, Horst) On the isoperimetric inequalities for Reuleaux polygons. (English summary) **2001h:52006**
**Kutateladze, Semën Samsonovich** Parametrization of convex isoperimetric problems. (Russian. Russian summary) **2001e:52013**
— Parametrization of isoperimetric-type problems in convex geometry [translation of Sib. Zh. Ind. Mat. **1** (1998), no. 1, 132–144; MR 2001e:52013]. (English summary)
**Lin, Bo** *see* **Guo, Shu Guang**
**Luo, Hu Ying** (*with* Wang, Yong Xin) Discussion on trigonometric equalities of simplices and their application. (Chinese. English and Chinese summaries)
**Lutwak, Erwin** (*with* Yang, Deane; Zhang, Gaoyong) A new ellipsoid associated with convex bodies. **2001j:52011**

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**Morgenstern, Dietrich** Proof of a conjecture by Walter Deuber concerning the distances between points of two types in $\mathbf{R}^d$. (English summary) **2001i:52012**
**Pillichshammer, Friedrich** On the sum of squared distances in the Euclidean plane. (English summary) **2001b:52013**
**Russell, Alexander** An easy reduction of an isoperimetric inequality on the sphere to extremal set theory. **2001b:52014**
**Sarges, Olaf** *see* **Juhnke, Friedrich, 2001b:52012**
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**Shen, Wen Xuan** Some geometrical inequalities for the center of gravity of $n$-simplexes. (Chinese. English and Chinese summaries)
**Siegel, Alan** Some Dido-type inequalities.
**Spring, David** Solution of a calculus problem on minimal volume.
**Sun, Ming Bao** Two kinds of inequalities associated with two $n$-simplexes. (Chinese. English and Chinese summaries)
**Urabe, Masatsugu** Partitioning point sets in space into disjoint convex polytopes. (English summary) **2001g:52013**
**Voigt, Jürgen** A concentration of mass property for isotropic convex bodies in high dimensions. (English summary) **2001i:52013**
**Wang, Yong Xin** *see* **Luo, Hu Ying**
**Yang, Deane** *see* **Lutwak, Erwin et al., 2001j:52011**
**Yanishevskiĭ, V. V.** *see* **Igonin, S. A., 2001c:52006**
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**Aste, Tomaso** (*with* Weaire, Denis) ★ The pursuit of perfect packing. (English summary) **2001g:52001**
**Awyong, Poh Wah** *see* **Scott, Paul R., 2001b:52002**
**Bezdek, András** Covering a convex polygon by triangles. (English summary) **2001c:52020**
**Bezdek, Károly** (*with* Daróczy Kiss, Endre; Liu, Kai Ju) Voronoi polyhedra of unit ball packings with small surface area. (English summary) **2001m:52029**
— On rhombic dodecahedra. (English summary) **2001m:52028**
— On a stronger form of Rogers's lemma and the minimum surface area of Voronoi cells in unit ball packings. (English summary) **2001b:52033**
**Böröczky, Károly** (*with* Kertész, G.; Makai, Endre, Jr.) The minimum area of a simple polygon with given side lengths. (English summary) **2001e:51016**
**Buldygin, V. V.** (*with* Kharazishvili, A. B.) ★ Geometric aspects of probability theory and mathematical statistics. (English summary) **2001i:60004**
**Burger, Markus** Zonoids and conditionally positive definite functions. (English summary) **2001k:52004**
**Chan, Clara S.** (*with* Robbins, David P.; Yuen, David S.) On the volume of a certain polytope. (English summary) **2001d:52022**
**Chu, Xiao Guang** (*with* Ying, Hua Yan) Two results for Cordon-type sum inequalities. (Chinese. English and Chinese summaries)
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**Daróczy Kiss, Endre** *see* **Bezdek, Károly et al., 2001m:52029**
**Dragomir, Sever Silvestru** (*with* Keady, Grant) A Hadamard-Jensen inequality and an application to the elastic torsion problem. (English summary) **2001i:35055**
**Dumitrescu, Adrian** Planar sets with few empty convex polygons. (English summary) **2001f:52037**
**(Ferguson, Samuel P.)** *see* **Oesterlé, Joseph, 2001k:52030**
**Fortune, Steven** Topological beam tracing. (English summary) (*see* **2001g:68004**)
**Füredi, Zoltán** (*with* Wetzel, John E.) The smallest convex cover for triangles of perimeter two. (English summary) **2001c:52001**
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**Giannopoulos, A. A.** (*with* Milman, Vitali D.) Extremal problems and isotropic positions of convex bodies. (English summary) **2001e:65031**
**Golomb, M.** *see* **Ghandehari, Mostafa, 2001g:90089**
**Guo, Qi[1]** (*with* Kaijser, Sten) On the distance between convex bodies. (English summary) **2001g:52007**
**(Hales, Thomas C.)** *see* **Oesterlé, Joseph, 2001k:52030**
**Hargé, Gilles** A particular case of correlation inequality for the Gaussian measure. (English summary) **2001a:60043**
**Hernández Cifre, María A.** Some covering problems for general planar lattices. (English summary) **2001k:52025**
**Kaijser, Sten** *see* **Guo, Qi[1], 2001g:52007**
**Keady, Grant** *see* **Dragomir, Sever Silvestru, 2001i:35055**
**Kertész, G.** *see* **Böröczky, Károly et al., 2001e:51016**
**Kharazishvili, A. B.** *see* **Buldygin, V. V., 2001i:60004**
**Kiss, György** Illumination problems and codes. (English summary) **2001f:51017**
**Klain, Daniel A.** (*with* Rota, Gian-Carlo) ★ Introduction to geometric probability. (English summary) **2001f:52009**
**Kohlmann, Peter** Curvature measures and stability. (English summary) **2001m:52005**
**Koldobsky, Alexander** A functional analytic approach to intersection bodies. (English summary) **2001m:52007**
**Lassak, Marek** Relationships between widths of a convex body and of an inscribed parallelotope. (English summary) **2001m:52004**
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**Leng, Gang Song** (*with* Zhu, Shen; Tang, Li Hua) Inequalities for two simplices. (English summary) **2001f:51026**
**Liu, Kai Ju** *see* **Bezdek, Károly et al., 2001m:52029**
**Maehara, Hiroshi** (*with* Oshiro, Ai) Cutting on a set of disks by a line with leaving many intact disks in both sides. (English summary) **2001a:05017**
**Makai, Endre, Jr.** *see* **Böröczky, Károly et al., 2001e:51016**
**Martini, Horst** (*with* Soltan, V.) Primitive inner illuminating systems for convex bodies. (English summary) **2001d:52012**
**Meyer, Mathieu** (*with* Werner, Elisabeth) On the $p$-affine surface area. **2001g:52012**
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**Moszyńska, Maria** Looking for selectors of star bodies. (English summary) **2001k:52010**
**Oesterlé, Joseph** Densité maximale des empilements de sphères en dimension 3 (d'après Thomas C. Hales et Samuel P. Ferguson). (French summary) [Maximal density of three-dimensional sphere packings (following Thomas C. Hales and Samuel P. Ferguson)] **2001k:52030**
**Okon, T.** Choquet theory in metric spaces. (English summary) **2001d:46020**
**Oshiro, Ai** *see* **Maehara, Hiroshi, 2001a:05017**
**Reisner, Shlomo** *see* **Meyer, Mathieu, 2001i:52010**
**Robbins, David P.** *see* **Chan, Clara S. et al., 2001d:52022**
**Rota, Gian-Carlo** *see* **Klain, Daniel A., 2001f:52009**
**Rudelson, M.** Distances between non-symmetric convex bodies and the $MM^*$-estimate. (English summary) **2001d:52008**
**Satnoianu, Razvan Alin** A general method for establishing geometric inequalities in a triangle.
**Scott, Paul R.** (*with* Awyong, Poh Wah) Inequalities for convex sets. (English summary) **2001b:52002**
**Shen, Wen Xuan** Some geometrical inequalities with parameters on $n$-simplex. (English and Chinese summaries)
**Soltan, V.** *see* **Martini, Horst, 2001d:52012**
**Tang, Li Hua** *see* **Leng, Gang Song et al., 2001f:51026**
**Weaire, Denis** *see* **Aste, Tomaso, 2001g:52001**
**Werner, Elisabeth** *see* **Meyer, Mathieu, 2001g:52012**
**Wetzel, John E.** *see* **Füredi, Zoltán, 2001c:52001**
**Winkler, Gerhard** Moment sets of bell-shaped distributions: extreme points, extremal decomposition and Chebysheff inequalities. (English summary) **2001d:60013**
**Ying, Hua Yan** *see* **Chu, Xiao Guang**
**Yuen, David S.** *see* **Chan, Clara S. et al., 2001d:52022**
**Zhu, Shen** *see* **Leng, Gang Song et al., 2001f:51026**

## 52A41 Convex functions and convex programs [see also 26B25, 90C25]

**Obuchowska, Wiesława T.** Minimal representation of convex regions defined by analytic functions. (English summary) **2001i:52014**
**Pach, János** (*with* Tardos, Gábor) Cutting glass. (English summary) **2001e:52014**
**Popovici, Nicolae** Generalized quasiconvexity with respect to domination-type binary relations. (English summary) (*see* **2001k:00021a**)
**Popoviciu, Elena** Les mathématiques sont les plus belles parmi les disciplines scientifiques. (English summary) [Mathematics is the most beautiful of the scientific disciplines] (*see* **2001k:00021a**)
**Tardos, Gábor** *see* **Pach, János, 2001e:52014**

### Items with secondary classifications in 52A41

**Colesanti, Andrea** (*with* Hug, Daniel) Steiner type formulae and weighted measures of singularities for semi-convex functions. (English summary) **2001h:49062**
**Dinh Thế Lục** *see* **Huynh Van Ngai et al., 2001e:49032**
**Dragomir, Sever Silvestru** (*with* Kannappan, Pl.) Some estimation of convex mappings in linear spaces endowed with subinner products. (English summary) **2001c:46036**
**Dudov, S. I.** (*with* Zlatorunskaya, I. V.) A uniform estimate for a convex compact set by a ball of arbitrary norm. (Russian. Russian summary) **2001m:41036**
**Durand, Cassiano** (*with* Hoffmann, Christoph M.) A systematic framework for solving geometric constraints analytically. (English summary) **2001j:68149**
**Hoffmann, Christoph M.** *see* **Durand, Cassiano, 2001j:68149**
**Hong, Bing Rong** *see* **Ren, Shi Jun et al., 2001c:90041**
**Hug, Daniel** *see* **Colesanti, Andrea, 2001h:49062**
**Huynh Van Ngai** (*with* Đinh Thế Lục; Théra, Michel) Approximate convex functions. (English summary) **2001e:49032**
**Icking, Christian** (*with* Klein, Rolf; Ma, Lihong; Nickel, Stefan; Weißler, Ansgar) On bisectors for different distance functions. (English summary) **2001j:68128**
**Kannappan, Pl.** *see* **Dragomir, Sever Silvestru, 2001c:46036**
**Kato, Mikio** *see* **Saito, Kichi-Suke et al., 2001d:46024**
**Klein, Rolf** *see* **Icking, Christian et al., 2001j:68128**
**Kojima, Masakazu** (*with* Tunçel, Levent) Cones of matrices and successive convex relaxations of nonconvex sets. (English summary) **2001i:90062**
**Li, Zong Duo** Some new properties of convex functions. (Chinese. English and Chinese summaries)
**Liang, Qing Zi** *see* **Ren, Shi Jun et al., 2001c:90041**
**Ma, Lihong** *see* **Icking, Christian et al., 2001j:68128**
**Maréchal, Pierre** On the convexity of the multiplicative potential and penalty functions and related topics. (English summary) **2001m:90135**
**Németh, S. Z.** Geodesic monotone vector fields. (English summary) **2001h:58013**
**Nickel, Stefan** *see* **Icking, Christian et al., 2001j:68128**
**Oustry, François** A second-order bundle method to minimize the maximum eigenvalue function. (English summary) **2001i:90055**
**Plastria, Frank** New errorbounds in continuous minisum location for aggregation at the gravity centre. (English summary) **2001m:90056**
**Ren, Shi Jun** (*with* Hong, Bing Rong; Liang, Qing Zi) A point positioning algorithm to determine whether convex regions bounded by multiple linear constraints are empty. (Chinese. English and Chinese summaries) **2001c:90041**

**Rubinov, Aleksandr M.** (*with* Vladimirov, A. A.) Differences of convex compacta and metric spaces of convex compacta with applications: a survey. (English summary) **2001i:49035**
— Abstract convexity: examples and applications. (English summary) **2001a:90041**
**Saito, Kichi-Suke** (*with* Kato, Mikio; Takahashi, Yasuji) Von Neumann-Jordan constant of absolute normalized norms on $\mathbf{C}^2$. (English summary) **2001d:46024**
**Syau, Yu-Ru** Invex and generalized convex fuzzy mappings. (English summary) **2001f:54004**
**Takahashi, Yasuji** *see* **Saito, Kichi-Suke et al., 2001d:46024**
**Thêra, Michel** *see* **Huynh Van Ngai et al., 2001e:49032**
**Tunçel, Levent** *see* **Kojima, Masakazu, 2001i:90062**
**Vladimirov, A. A.** *see* **Rubinov, Aleksandr M., 2001i:49035**
**Weißler, Ansgar** *see* **Icking, Christian et al., 2001j:68128**
**Weitzman, Martin L.** An 'economics proof' of the supporting hyperplane theorem. (English summary) **2001e:91048**
**Zlatorunskaya, I. V.** *see* **Dudov, S. I., 2001m:41036**

## 52A55 Spherical and hyperbolic convexity

**Schlenker, Jean-Marc** Dihedral angles of convex polyhedra. (English summary) **2001b:52015**

Items with secondary classifications in 52A55

**Bezdek, Károly** (*with* Blekherman, Grigoriy) Danzer-Grünbaum's theorem revisited. (English summary) **2001e:52010**
**Blekherman, Grigoriy** *see* **Bezdek, Károly, 2001e:52010**
**Chan, Timothy M.** Approximating the diameter, width, smallest enclosing cylinder, and minimum-width annulus. (English summary) (*see* **2001i:68009**)
**Isokawa, Yukinao** Geometric probabilities concerning large random triangles in the hyperbolic plane. (English summary) **2001f:60014**
**Klain, Daniel A.** (*with* Rota, Gian-Carlo) ★ Introduction to geometric probability. (English summary) **2001f:52009**
**Okon, T.** Choquet theory in metric spaces. (English summary) **2001d:46020**
**Rota, Gian-Carlo** *see* **Klain, Daniel A., 2001f:52009**
**Smith, Warren D.** A lower bound for the simplexity of the $n$-cube via hyperbolic volumes. (English summary) **2001c:52004**
**Wegner, Bernd** Chord-stretched convex versions of planar curves with self-intersections. (English summary) **2001k:52007**

## 52A99 None of the above, but in this section

**Billera, Louis J.** (*with* Hetyei, Gábor) Linear inequalities for flags in graded partially ordered sets. (English summary) **2001m:52011**
**Hetyei, Gábor** *see* **Billera, Louis J., 2001m:52011**
**Richter, Christian** Simple paradoxical replications of sets. (English summary) **2001i:52015**

Items with secondary classifications in 52A99

**Babenko, Yu. I.** (*with* Zalgaller, V. A.) Power invariants of some point sets. (Russian. English and Russian summaries) **2001a:51014**
— Power invariants of the union of prisms. (Russian. English and Russian summaries) **2001a:51015**
**Danilov, Vladimir Ivanovich[1]** (*with* Koshevoĭ, G. A.; Murota, Kazuo) Discrete convexity and equilibria in economies with indivisible goods and money. (English summary) **2001m:91122**
**Deza, Michel-Marie** (*with* Rosenberg, Ivo G.) $n$-semimetrics. (English summary) **2001m:51025**
**Koshevoĭ, G. A.** *see* **Danilov, Vladimir Ivanovich[1] et al., 2001m:91122**
**Li, Wenbo V.** (*with* Linde, Werner) Metric entropy of convex hulls in Hilbert spaces. (English summary) **2001h:60063**
**Linde, Werner** *see* **Li, Wenbo V., 2001h:60063**
**Makeev, V. V.** On sets with a prescribed number of power invariants. (Russian. English and Russian summaries) **2001a:51019**
**Murota, Kazuo** *see* **Danilov, Vladimir Ivanovich[1] et al., 2001m:91122**
**Rosenberg, Ivo G.** *see* **Deza, Michel-Marie, 2001m:51025**
**Zalgaller, V. A.** *see* **Babenko, Yu. I., 2001a:51014**

# 52Bxx Polytopes and polyhedra

## 52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

**Arocha Pérez, Jorge Luis** (*with* Bracho, Javier; Montejano, Luis) Regular projective polyhedra with planar faces. I. (English summary) **2001g:52014**
**Bača, Martin** (*with* Miller, Mirka) Antimagic face labeling of convex polytopes based on biprisms. (English summary) **2001m:52012**
**Bayer, Margaret M.** (*with* Ehrenborg, Richard) The toric $h$-vectors of partially ordered sets. (English summary) **2001k:52015**
**Bertrand, Yves** *see* **Françon, Jean, 2001b:52017**
**Bespamyatnykh, S. N.** (*with* Kirkpatrick, David; Snoeyink, Jack Scott) Generalizing ham sandwich cuts to equitable subdivisions. (English summary) **2001j:52012**
**Bracho, Javier** Regular projective polyhedra with planar faces. II. (English summary) **2001g:52015**
— *see also* **Arocha Pérez, Jorge Luis et al., 2001g:52014**
**Bremner, David** (*with* Klee, Victor) Inner diagonals of convex polytopes. (English summary) **2001a:52008**
**Chari, Manoj K.** On discrete Morse functions and combinatorial decompositions. (English and French summaries) **2001g:52016**
**Cho, Kyu In** *see* **Park, Jong Youll et al.**
**Cho, Soojin** Polytopes of roots of type $A_n$. (English summary) **2001b:52016**
**Coxeter, H. S. M.** (*with* Kharchenko, A. V.) Frieze patterns for regular star polytopes and statistical honeycombs. (English summary) **2001i:52016**
**Deza, Michel-Marie** (*with* Shtogrin, Mikhail) Three-, four-, and five-dimensional fullerenes. (English summary) **2001k:52016**
**Ehrenborg, Richard** (*with* Johnston, D.; Rajagopalan, Rajmohan; Readdy, Margaret A.) Cutting polytopes and flag $f$-vectors. (English summary) **2001a:52009**
— *see also* **Bayer, Margaret M., 2001k:52015**
**Françon, Jean** (*with* Bertrand, Yves) Topological 3D-manifolds: a statistical study of the cells. (English summary) **2001b:52017**
**Ganikhodzhaev, R. N.** (*with* Karimov, A. Z.) On the number of vertices of a polyhedron of bistochastic quadratic operators. (Russian. English and Uzbek summaries)
**Hansen, Guillermo** (*with* Toranzos, Fausto Alfredo) Polyhedron = polytope −1 facet. (English summary) **2001f:52017**
**Johnston, D.** *see* **Ehrenborg, Richard et al., 2001a:52009**
**Jorge, H. A.** Smith-type inequalities for a polytope with a solvable group of symmetries. (English summary) **2001f:52018**
**Joswig, Michael** (*with* Ziegler, Günter M.) Neighborly cubical polytopes. (English summary) **2001f:52019**
**Karimov, A. Z.** *see* **Ganikhodzhaev, R. N.**
**Kharchenko, A. V.** *see* **Coxeter, H. S. M., 2001i:52016**
**Kim, Dong-Soo** *see* **Park, Jong Youll et al.**
**Kim, Seon-Bu** *see* **Park, Jong Youll et al.**
**Kirkpatrick, David** *see* **Bespamyatnykh, S. N. et al., 2001j:52012**
**Klee, Victor** *see* **Bremner, David, 2001a:52008**
**Koolen, Jack H.** (*with* Laurent, Monique; Schrijver, Alexander) Equilateral dimension of the rectilinear space. (English summary) **2001j:52013**
**Laurent, Monique** *see* **Koolen, Jack H. et al., 2001j:52013**
**Lipták, László** (*with* Lovász, László) Facets with fixed defect of the stable set polytope. (English summary) **2001f:52020**
**Lovász, László** *see* **Lipták, László, 2001f:52020**
**Miller, Mirka** *see* **Bača, Martin, 2001m:52012**
**Montejano, Luis** *see* **Arocha Pérez, Jorge Luis et al., 2001g:52014**
**Pak, Igor** Four questions on Birkhoff polytope. (English summary) **2001g:52017**
**Park, Jong Youll** (*with* Kim, Seon-Bu; Kim, Dong-Soo; Cho, Kyu In) Are there any numbers other than the Euler number for polyhedra? (Korean. Korean summary)
**Prabhu, Nagabhushana** Sections of simplices. (English summary) **2001c:52007**
**Rajagopalan, Rajmohan** *see* **Ehrenborg, Richard et al., 2001a:52009**
**Readdy, Margaret A.** *see* **Ehrenborg, Richard et al., 2001a:52009**
**Schrijver, Alexander** *see* **Koolen, Jack H. et al., 2001j:52013**
**Sedykh, Vyacheslav** Discrete versions of the four-vertex theorem. (English summary) **2001e:52015**
**Shtogrin, Mikhail** *see* **Deza, Michel-Marie, 2001k:52016**
**Snoeyink, Jack Scott** *see* **Bespamyatnykh, S. N. et al., 2001j:52012**
**Timorin, V. A.** An analogue of the Hodge-Riemann relations for simple convex polyhedra. (Russian) **2001b:52018**
**Toranzos, Fausto Alfredo** *see* **Hansen, Guillermo, 2001f:52017**
**Vinson, Jade P.** On holyhedra. (English summary) **2001e:52016**
**Welzl, Emo** Entering and leaving $j$-facets. (English summary) **2001m:52013**
**Ziegler, Günter M.** Lectures on 0/1-polytopes. (English summary) **2001e:52017**
— *see also* **Joswig, Michael, 2001f:52019**

Items with secondary classifications in 52B05

**Bárány, Imre** (*with* Kantor, Jean-Michel) On the number of lattice free polytopes. (English summary) **2001c:52005**
**Bezdek, Károly** (*with* Lángi, Zsolt) Almost equidistant points on $S^{d-1}$. (English summary) **2001e:51011**
**Bisztriczky, Tibor** (*with* Böröczky, Károly, Jr.) Oriented matroid rigidity of multiplices. (English summary) **2001m:05073**
**Björner, Anders** Face numbers of scarf complexes. (English summary) **2001k:52024**
**Böröczky, Károly, Jr.** *see* **Bisztriczky, Tibor, 2001m:05073**
**Bukhshtaber, V. M.** (*with* Panov, Taras E.) Torus actions determined by simple polytopes. (English summary) **2001h:57046**
**Callahan, Kevin** (*with* Hann, Kathy) An Euler-type volume identity. (English summary) **2001h:52002**
**Dwyer, R. A.** Voronoi diagrams and convex hulls of random moving points. (English summary) **2001a:60012**
**Edelman, Paul H.** Ordering points by linear functionals (English summary) **2001b:52038**
**Haase, Christian** (*with* Ziegler, Günter M.) On the maximal width of empty lattice simplices. (English summary) **2001a:52006**
**Hann, Kathy** *see* **Callahan, Kevin, 2001h:52002**
**Hibi, Takayuki** *see* **Ohsugi, Hidefumi, 2001c:05092**
**Kantor, Jean-Michel** *see* **Bárány, Imre, 2001c:52005**
**Lángi, Zsolt** *see* **Bezdek, Károly, 2001e:51011**
**Lassmann, Gunter** (*with* Sparla, Eric) A classification of centrally-symmetric and cyclic 12-vertex triangulations of $S^2 \times S^2$. (English summary) **2001i:57035**
**Novik, Isabella** Lower bounds for the $cd$-index of odd-dimensional simplicial manifolds. (English summary) **2001b:06005**
**Ohsugi, Hidefumi** (*with* Hibi, Takayuki) Compressed polytopes, initial ideals and complete multipartite graphs. (English summary) **2001e:05092**
**Pak, Igor** On the number of faces of certain transportation polytopes. (English summary) **2001f:90077**
**Panov, Taras E.** *see* **Bukhshtaber, V. M., 2001h:57046**
**Patsuk, V. N.** Construction of an optimal lattice network on a plane. (Russian. English summary) **2001h:52015**
**Peeva, Irena** (*with* Reiner, Victor; Welker, Volkmar) Cohomology of real diagonal subspace arrangements via resolutions. (English summary) **2001c:13021**
**Reiner, Victor** *see* **Peeva, Irena et al., 2001c:13021**
**Schlenker, Jean-Marc** Dihedral angles of convex polyhedra. (English summary) **2001b:52015**

**Shmatkov, R. N.** On coloring polygon-circle graphs with clique number 2. (English summary) **2001j:05057**
**Simanchëv, R. Yu.** The structure of fractional vertices of the relaxation of the $k$-factor polyhedron. (Russian. English summary) **2001j:90128**
— Adjacency of the vertices of the $k$-factor polyhedron. (Russian. English summary) **2001j:90129**
**Simion, Rodica** Noncrossing partitions. (English and French summaries) **2001g:05011**
**Sparla, Eric** *see* **Lassmann, Gunter, 2001i:57035**
**Stanley, Richard P.** Positivity problems and conjectures in algebraic combinatorics. **2001f:05001**
**Welker, Volkmar** *see* **Peeva, Irena et al., 2001c:13021**
**Zeilberger, Doron** Proof of a conjecture of Chan, Robbins, and Yuen. (English summary) **2001b:05015**
**Ziegler, Günter M.** *see* **Haase, Christian, 2001a:52006**
**Zimmerman, Seth** Slicing space.

## 52B10 Three-dimensional polytopes

**Bölcskei, Attila** On weakly-neighbourly polyhedra. (English summary) **2001d:52015**
**Hosoya, Haruo** *see* **Maruyama, Yukiko et al.**
**Jucovič, Ernest** (*with* Ševec, S.; Trenkler, Marián) Constructions of triangular and quadrangular polyhedra of inscribable type. (English summary) **2001f:52021**
**Kalai, Gil** *see* **Meisinger, Günter et al., 2001e:52018**
**Klee, Victor** *see* **Mihalisin, J., 2001h:52007**
**Kleinschmidt, Peter** *see* **Meisinger, Günter et al., 2001e:52018**
**Lebedeva, N. D.** Characterization of a class of bodies in $\mathbf{R}^3$. (Russian. English and Russian summaries) **2001d:52016**
**Makeev, V. V.** Three-dimensional polytopes inscribed in and circumscribed about convex compacta. (Russian. Russian summary) **2001k:52017**
**Malkevitch, Joseph** Convex isosceles triangle polyhedra.
**Maruyama, Yukiko** (*with* Satoh, Kaori; Hosoya, Haruo) Tables of Cartesian coordinates of semiregular polyhedra and two rhombic polyhedra. (English summary)
**Mavlankulov, G. Kh.** *see* **Pulatov, A. K., 2001k:52018**
**Meisinger, Günter** (*with* Kleinschmidt, Peter; Kalai, Gil) Three theorems, with computer-aided proofs, on three-dimensional faces and quotients of polytopes. (English summary) **2001e:52018**
**Mihalisin, J.** (*with* Klee, Victor) Convex and linear orientations of polytopal graphs. (English summary) **2001h:52007**
**Pisanski, Tomaž** (*with* Randić, Milan) Bridges between geometry and graph theory. (English summary)
**Pulatov, A. K.** (*with* Mavlankulov, G. Kh.) Comparative analysis of different types of projection of a convex 3-polytope onto a two-dimensional surface (plane, sphere). (Russian. English and Uzbek summaries) **2001k:52018**
**Randić, Milan** *see* **Pisanski, Tomaž**
**Sabitov, I. Kh.** On some recent results in the metric theory of polyhedra. (English summary) **2001m:52014**
**Satoh, Kaori** *see* **Maruyama, Yukiko et al.**
**Ševec, S.** *see* **Jucovič, Ernest et al., 2001f:52021**
**Trenkler, Marián** *see* **Jucovič, Ernest et al., 2001f:52021**
**Voltekhovskiĭ, Yu. L.** On the symmetry of 4- to 11-hedra. (English summary) **2001m:52015**
**Walser, Hans** The pop-up cuboctahedron. **2001c:52008**

Items with secondary classifications in 52B10

**Bognár Máthé, Katalin** (*with* Böröczky, Károly) Regular polyhedra and Hajós polyhedra. **2001c:52023**
**Böröczky, Károly** *see* **Bognár Máthé, Katalin, 2001c:52023**
**Boyvalenkov, Peter** (*with* Danev, Danyo; Kazakov, Peter) Indexes of spherical codes. (English summary) **2001m:05071**
**Callahan, Kevin** (*with* Hann, Kathy) An Euler-type volume identity. (English summary) **2001h:52002**
**Casselman, William A.** Pictures and proofs. **2001h:00010**
— Images et preuves. [Pictures and proofs]
**Conway, John H.** (*with* Radin, Charles; Sadun, L.) Relations in SO(3) supported by geodetic angles. (English summary) **2001j:52015**
**Coxeter, H. S. M.** (*with* Grünbaum, Branko) Face-transitive polyhedra with rectangular faces and icosahedral symmetry. (English summary) **2001m:52016**
**Danev, Danyo** *see* **Boyvalenkov, Peter et al., 2001m:05071**
**Delgado Friedrichs, Olaf** (*with* Deza, Michel-Marie) More icosahedral fulleroids. (English summary) **2001i:92068**
**Deza, Michel-Marie** *see* **Delgado Friedrichs, Olaf, 2001i:92068**
**Dietz, Andreas** (*with* Fiorio, C.; Habib, Michel; Laurenço, Claude) Representation of stereochemistry using combinatorial maps. (English summary) **2001b:92049**
**Fiorio, C.** *see* **Dietz, Andreas et al., 2001b:92049**
**Grünbaum, Branko** Parallelogram-faced isohedra with edges in mirror-planes. **2001j:52016**
— *see also* **Coxeter, H. S. M., 2001m:52016**
**Habib, Michel** *see* **Dietz, Andreas et al., 2001b:92049**
**Hann, Kathy** *see* **Callahan, Kevin, 2001h:52002**
**Jendrol', Stanislav** (*with* Voss, H. J.) Light paths with an odd number of vertices in large polyhedral maps. (English summary) **2001j:05048**
**Kazakov, Peter** *see* **Boyvalenkov, Peter et al., 2001m:05071**
**Kolodziejczyk, Krzysztof** On odd points and the volume of lattice polyhedra. (English summary) **2001i:52020**
**Laurenço, Claude** *see* **Dietz, Andreas et al., 2001b:92049**
**Mednykh, Aleksandr D.** *see* **Vesnin, A. Yu., 2001c:57007**
**Monson, B.** (*with* Weiss, Asia Ivić) Realizations of regular toroidal maps. (English summary) **2001j:51021**
**Morin, Bernard** (*with* Nishi, Haruko) Hyperbolic structures on the configuration space of six points in the projective line. (English summary) **2001d:57019**
**Nishi, Haruko** *see* **Morin, Bernard, 2001d:57019**
**Radin, Charles** *see* **Conway, John H. et al., 2001j:52015**
**Sabitov, I. Kh.** The generalized Heron-Tartaglia formula and some of its consequences. (Russian. Russian summary) **2001a:52023**
**Sadun, L.** *see* **Conway, John H. et al., 2001j:52015**
**Talata, István** On extensive subsets of convex bodies. (English summary) **2001b:52035**
**Urabe, Masatsugu** Partitioning point sets in space into disjoint convex polytopes. (English summary) **2001g:52013**
**Vesnin, A. Yu.** (*with* Mednykh, Aleksandr D.) Spherical Coxeter groups and hyperelliptic 3-manifolds. (Russian. Russian summary) **2001c:57007**
**Voss, H. J.** *see* **Jendrol', Stanislav, 2001j:05048**
**Walser, Hans** The Pascal pyramid. **2001m:05011**
**Weiss, Asia Ivić** *see* **Monson, B., 2001j:51021**

## 52B11 $n$-dimensional polytopes

**Achatz, Hans** (*with* Kleinschmidt, Peter) Reconstructing a simple polytope from its graph. (English summary) **2001f:52022**
**Athanasiadis, Christos A.** (*with* Rambau, Jörg; Santos, Francisco) The generalized Baues problem for cyclic polytopes. II. (English summary) **2001j:52014**
**Billera, Louis J.** (*with* Ehrenborg, Richard) Monotonicity of the cd-index for polytopes. (English summary) **2001c:52009**
**Bisztriczky, Tibor** (*with* Károlyi, Gyula) Subpolytopes of cyclic polytopes. (English summary) **2001d:52017**
**Ehrenborg, Richard** *see* **Billera, Louis J., 2001c:52009**
**Hartley, Michael I.** Polytopes of finite type. (English summary) **2001f:52024**
**Huber, Birkett** (*with* Rambau, Jörg; Santos, Francisco) The Cayley trick, lifting subdivisions and the Bohne-Dress theorem on zonotopal tilings. (English summary) **2001i:52017**
**Joswig, Michael** Reconstructing a non-simple polytope from its graph. (English summary) **2001f:52023**
**Károlyi, Gyula** *see* **Bisztriczky, Tibor, 2001d:52017**
**Khovanskiĭ, Askol'd G.** Consistent partitions of polytopes and polynomial measures. **2001d:52018**
**Kleinschmidt, Peter** *see* **Achatz, Hans, 2001f:52022**
**McMullen, Peter** Simplices with equiareal faces. (English summary) **2001f:52025**
**Raĭgorodskiĭ, A. M.** The Borsuk problem for (0, 1)-polyhedra and cross polytopes. (Russian) **2001h:52008**
**Rambau, Jörg** (*with* Santos, Francisco) The generalized Baues problem for cyclic polytopes. I. (English summary) **2001b:52019**
— *see also* **Huber, Birkett et al., 2001i:52017** *and* **Athanasiadis, Christos A. et al., 2001j:52014**
**Santos, Francisco** A point set whose space of triangulations is disconnected. **2001f:52026**
— *see also* **Rambau, Jörg, 2001b:52019**; **Huber, Birkett et al., 2001i:52017** *and* **Athanasiadis, Christos A. et al., 2001j:52014**

Items with secondary classifications in 52B11

**Bollobás, Béla** (*with* Brightwell, Graham R.) Convex bodies, graphs and partial orders. **2001c:52016**
**Boyvalenkov, Peter** (*with* Danev, Danyo; Kazakov, Peter) Indexes of spherical codes. (English summary) **2001m:05071**
**Brightwell, Graham R.** *see* **Bollobás, Béla, 2001c:52016**
**Cordovil, Raul** (*with* Duchet, Pierre) Cyclic polytopes and oriented matroids. (English summary) **2001g:52020**
**Danev, Danyo** *see* **Boyvalenkov, Peter et al., 2001m:05071**
**Duchet, Pierre** *see* **Cordovil, Raul, 2001g:52020**
**Dupuis, Paul** (*with* Ramanan, Kavita) Convex duality and the Skorokhod problem. I, II. (English summary) **2001f:49041**
**Höppner, Andrea** (*with* Ziegler, Günter M.) A census of flag-vectors of 4-polytopes. (English summary) **2001e:52026**
**Hujter, Mihály** Partitioning the $N$-space into collinear sets of orthants. (English summary) **2001m:05189**
**Huynh The Phung** On the locally uniform openness of polyhedral sets. (English summary) **2001j:90099**
**Iwasaki, Katsunori** Polytopes, invariants and harmonic functions. (English summary) (*see* **2001f:55001**)
— Recent progress in polyhedral harmonics. (English summary) **2001e:31004**
**Kazakov, Peter** *see* **Boyvalenkov, Peter et al., 2001m:05071**
**Kolodziejczyk, Krzysztof** On the volume of lattice manifolds. (English summary) **2001f:52027**
**Prabhu, Nagabhushana** Sections of simplices. (English summary) **2001c:52007**
**Ramanan, Kavita** *see* **Dupuis, Paul, 2001f:49041**
**Ziegler, Günter M.** *see* **Höppner, Andrea, 2001e:52026**

## 52B12 Special polytopes (linear programming, centrally symmetric, etc.)

**Athanasiadis, Christos A.** (*with* De Loera, Jesús A.; Reiner, Victor; Santos, Francisco) Fiber polytopes for the projections between cyclic polytopes. (English summary) **2001c:52010**
**Burger, Thomas** (*with* Gritzmann, Peter) Polytopes in combinatorial optimization.
**Burgiel, H.** (*with* Stanton, Dennis W.) Realizations of regular abstract polyhedra of types {3, 6} and {6, 3}. (English summary) **2001g:52018**
**De Loera, Jesús A.** *see* **Athanasiadis, Christos A. et al., 2001c:52010**
**Edelman, Paul H.** (*with* Rambau, Jörg; Reiner, Victor) On subdivision posets of cyclic polytopes. (English summary) **2001b:52020**
**Fleiner, Tamás** (*with* Kaibel, Volker; Rote, Günter) Upper bounds on the maximal number of facets of 0/1-polytopes. (English summary) **2001d:52019**
**Gritzmann, Peter** *see* **Burger, Thomas**
**Kaibel, Volker** (*with* Wolff, Martin) Simple 0/1-polytopes. (English summary) **2001d:52020**
— *see also* **Fleiner, Tamás et al., 2001d:52019**

**Makeev, V. V.** On the geometry of two- and three-dimensional Minkowski spaces. (Russian. English and Russian summaries) **2001i:52018**
**Martini, Horst** (*with* Schöbel, Anita) Hyperplane transversals of homothetical, centrally symmetric polytopes. (English summary) **2001e:52019**
**Miller, E. N.** Icosahedra constructed from congruent triangles. (English summary) **2001d:52021**
**Rambau, Jörg** *see* **Edelman, Paul H. et al., 2001b:52020**
**Reiner, Victor** *see* **Edelman, Paul H. et al., 2001b:52020** *and* **Athanasiadis, Christos A. et al., 2001c:52010**
**Rote, Günter** *see* **Fleiner, Tamás et al., 2001d:52019**
**Santos, Francisco** *see* **Athanasiadis, Christos A. et al., 2001c:52010**
**Schöbel, Anita** *see* **Martini, Horst, 2001e:52019**
**Shephard, G. C.** Isohedral deltahedra. (English summary) **2001e:52020**
**Stanton, Dennis W.** *see* **Burgiel, H., 2001g:52018**
**Voitekhovskiĭ, Yu. L.** The Fedorov algorithm revised. (English summary)
**Wolff, Martin** *see* **Kaibel, Volker, 2001d:52020**

Items with secondary classifications in 52B12

**Athanasiadis, Christos A.** (*with* Rambau, Jörg; Santos, Francisco) The generalized Baues problem for cyclic polytopes. II. (English summary) **2001j:52014**
**Bartels, Sven G.** The complexity of Yamnitsky and Levin's simplices algorithm. (English summary) **2001f:90078**
**Bölcskei, Attila** On weakly-neighbourly polyhedra. (English summary) **2001d:52015**
**Chervyakov, O. V.** Affine symmetries of the polytope of an independence system with unit shift. (Russian. Russian summary) **2001f:52029**
**Gärtner, Bernd** (*with* Henk, Martin; Ziegler, Günter M.) Randomized simplex algorithms on Klee-Minty cubes. (English summary) **2001b:90040**
**Henk, Martin** *see* **Gärtner, Bernd et al., 2001b:90040**
**Pak, Igor** Four questions on Birkhoff polytope. (English summary) **2001g:52017**
**Rambau, Jörg** (*with* Santos, Francisco) The generalized Baues problem for cyclic polytopes. I. (English summary) **2001b:52019**
— *see also* **Athanasiadis, Christos A. et al., 2001j:52014**
**Sakai, Toshinori** Embeddings of equilateral polygons in unit lattices. (English summary) **2001e:52023**
**Santos, Francisco** *see* **Rambau, Jörg, 2001b:52019** *and* **Athanasiadis, Christos A. et al., 2001j:52014**
**Zhang, Gaoyong** Intersection bodies and polytopes. (English summary) **2001i:52003**
**Ziegler, Günter M.** *see* **Gärtner, Bernd et al., 2001b:90040**

## 52B15 Symmetry properties of polytopes

**Conway, John H.** (*with* Radin, Charles; Sadun, L.) Relations in SO(3) supported by geodetic angles. (English summary) **2001j:52015**
**Coxeter, H. S. M.** (*with* Grünbaum, Branko) Face-transitive polyhedra with rectangular faces and icosahedral symmetry. (English summary) **2001m:52016**
**Grünbaum, Branko** Parallelogram-faced isohedra with edges in mirror-planes. **2001j:52016**
— *see also* **Coxeter, H. S. M., 2001m:52016**
**Ishii, Motonaga** On a general method to calculate vertices of $N$-dimensional product-regular polytopes. (English summary) **2001b:52021**
**Kaino, Keimei** Folding tetrahedra and four-dimensional origamis. (English summary) (*see* **2001i:00036**)
**Monson, B.** (*with* Weiss, Asia Ivić) Realizations of regular toroidal maps of type $\{4, 4\}$. (English summary) **2001g:52019**
**Prokhorov, M. N.** On polyhedra of finite volume in the Lobachevskiĭ space with dihedral angles $\frac{\pi}{2}$ and $\frac{\pi}{3}$. (Russian. English and Russian summaries) (*see* **2001d:00011**)
**Radin, Charles** *see* **Conway, John H. et al., 2001j:52015**
**Sadun, L.** *see* **Conway, John H. et al., 2001j:52015**
**Soma, Takashi** (*with* Watanabe, Yasunari) Animation of some truncated polyhedrons. (English summary) (*see* **2001i:00036**)
**Stillwell, John** The story of the 120-cell. **2001k:52019**
**Watanabe, Yasunari** *see* **Soma, Takashi, (2001i:00036)**
**Weiss, Asia Ivić** *see* **Monson, B., 2001g:52019**

Items with secondary classifications in 52B15

**Chervyakov, O. V.** Affine symmetries of the polytope of an independence system with unit shift. (Russian. Russian summary) **2001f:52029**
**Coxeter, H. S. M.** (*with* Kharchenko, A. V.) Frieze patterns for regular star polytopes and statistical honeycombs. (English summary) **2001i:52016**
**Damian, F. L.** (*with* Makarov, V. S.) Star polytopes and hyperbolic 3-manifolds. (English, Russian and Moldavian summaries) **2001f:52034**
**Delgado Friedrichs, Olaf** (*with* Deza, Michel-Marie) More icosahedral fulleroids. (English summary) **2001i:92068**
**Deza, Michel-Marie** *see* **Delgado Friedrichs, Olaf, 2001i:92068**
**Fern, Lori** (*with* Gordon, Gary; Leasure, Jason; Pronchik, Sharon) Matroid automorphisms and symmetry groups. (English summary) **2001g:05034**
**Gordon, Gary** *see* **Fern, Lori et al., 2001g:05034**
**Iwasaki, Katsunori** Invariants of finite reflection groups and the mean value problem for polytopes. (English summary) **2001b:20066**
**Jorge, H. A.** Smith-type inequalities for a polytope with a solvable group of symmetries. (English summary) **2001f:52018**
**Kharchenko, A. V.** *see* **Coxeter, H. S. M., 2001i:52016**
**Leasure, Jason** *see* **Fern, Lori et al., 2001g:05034**
**Makarov, V. S.** *see* **Damian, F. L., 2001f:52034**
**Miller, E. N.** Icosahedra constructed from congruent triangles. (English summary) **2001d:52021**
**Pronchik, Sharon** *see* **Fern, Lori et al., 2001g:05034**
**Voitekhovskiĭ, Yu. L.** On the symmetry of 4- to 11-hedra. (English summary) **2001m:52015**

## 52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A11, 13F20, 13Hxx]

**Bárány, Imre** (*with* Kantor, Jean-Michel) Universal counting of lattice points in polytopes. (English summary) **2001e:52021**
**Chan, Clara S.** (*with* Robbins, David P.; Yuen, David S.) On the volume of a certain polytope. (English summary) **2001d:52022**
**Chen, Beifang** (*with* Turaev, Vladimir) Counting lattice points of rational polyhedra. (English summary) **2001i:52019**
**Dartois, G.** (*with* Grigis, A.) Separating maps of the lattice $E_8$ and triangulations of the eight-dimensional torus. (English summary) **2001c:52011**
**Grigis, A.** *see* **Dartois, G., 2001c:52011**
**Imiya, Atsushi** *see* **Kenmochi, Yukiko, (2001f:35003)**
**Kantor, Jean-Michel** *see* **Bárány, Imre, 2001e:52021**
**Kenmochi, Yukiko** (*with* Imiya, Atsushi) On combinatorial properties of discrete planar surfaces. (English summary) (*see* **2001f:35003**)
**Kolodziejczyk, Krzysztof** On the volume of lattice manifolds. (English summary) **2001f:52027**
— On odd points and the volume of lattice polyhedra. (English summary) **2001i:52020**
**Kravtsov, M. K.** A counterexample to the conjecture on the maximum number of integer vertices of a multi-index axial transport polytope. (Russian. Russian summary) **2001e:52022**
**Masuda, Mikiya** From convex polytopes to multi-polytopes. (*see* **2001m:00016**)
**Poonen, Bjorn** (*with* Rodriguez Villegas, Fernando) Lattice polygons and the number 12. **2001b:52022**
**Robbins, David P.** *see* **Chan, Clara S. et al., 2001d:52022**
**Rodriguez Villegas, Fernando** *see* **Poonen, Bjorn, 2001b:52022**
**Sakai, Toshinori** Embeddings of equilateral polygons in unit lattices. (English summary) **2001e:52023**
**Turaev, Vladimir** *see* **Chen, Beifang, 2001i:52019**
**Yuen, David S.** *see* **Chan, Clara S. et al., 2001d:52022**

Items with secondary classifications in 52B20

**Altmann, Klaus** Singularities arising from lattice polytopes. (English summary) **2001f:14022**
— (*with* van Straten, Duco) The polyhedral Hodge number $h^{2,1}$ and vanishing of obstructions. (English summary) **2001k:14096**
**Bárány, Imre** The technique of $M$-regions and cap coverings: a survey. (English summary) **2001k:52001**
**Beck, Matthias** Counting lattice points by means of the residue theorem. (English summary) **2001k:11191**
**Björner, Anders** Face numbers of scarf complexes. (English summary) **2001k:52024**
**Buch, Anders Skovsted** The saturation conjecture (after A. Knutson and T. Tao). **2001g:05105**
**Carrell, James B.** (*with* Kurth, Alexandre) Normality of torus orbit closures in $G/P$. (English summary) **2001j:14067**
**(Fulton, William)** *see* **Buch, Anders Skovsted, 2001g:05105**
**Huber, Birkett** (*with* Rambau, Jörg; Santos, Francisco) The Cayley trick, lifting subdivisions and the Bohne-Dress theorem on zonotopal tilings. (English summary) **2001i:52017**
**Jorge, H. A.** Smith-type inequalities for a polytope with a solvable group of symmetries. (English summary) **2001f:52018**
**Kateb, Djalil** (*with* Seghier, Abdellatif) Expansion of the inverse of positive-definite Toeplitz operators over polytopes. (English summary) **2001b:47045**
**Khovanskiĭ, Askol'd G.** Consistent partitions of polytopes and polynomial measures. **2001d:52018**
— Newton polyhedra, a new formula for mixed volume, product of roots of a system of equations. (English summary) **2001d:52013**
**Kirillov, Anatoliĭ N.** New combinatorial formula for modified Hall-Littlewood polynomials. (English summary) **2001h:05103**
**(Knutson, A.)** *see* **Buch, Anders Skovsted, 2001g:05105**
**Kolodziejczyk, Krzysztof** Hadwiger-Wills-type higher-dimensional generalizations of Pick's theorem. (English summary) **2001f:52036**
**Kurth, Alexandre** *see* **Carrell, James B., 2001j:14067**
**Li, Zi Wei** (*with* Shen, Xiao Bin) Counting lattice point parallelograms and lattice point squares from $m \times n$ rectangles. (Chinese. English and Chinese summaries)
**Matveev, A. O.** Enumeration of the faces of complexes and normalizations of distributive lattices. (Russian. Russian summary) **2001j:05007**
**Moussafir, Jacques-Olivier** Convex hulls of integral points. (English and Russian summaries) **2001j:52025**
**Orevkov, Stepan Yu.** Volume of the Newton polyhedron of the discriminant. (Russian) **2001c:14077**
**Panov, Taras E.** Combinatorial formulas for the $\chi_y$-genus of a polyoriented quasitoric manifold. (Russian) **2001a:14055**
**Patsuk, V. N.** Construction of an optimal lattice network on a plane. (Russian. English summary) **2001h:52015**
**Rambau, Jörg** *see* **Huber, Birkett et al., 2001i:52017**
**Santos, Francisco** A point set whose space of triangulations is disconnected. **2001f:52026**
— *see also* **Huber, Birkett et al., 2001i:52017**
**Seghier, Abdellatif** *see* **Kateb, Djalil, 2001b:47045**
**Shen, Xiao Bin** *see* **Li, Zi Wei**
**van Straten, Duco** *see* **Altmann, Klaus, 2001k:14096**
**(Tao, Terence C.)** *see* **Buch, Anders Skovsted, 2001g:05105**
**Timorin, V. A.** An analogue of the Hodge-Riemann relations for simple convex polyhedra. (Russian) **2001b:52018**

## 52B22 Shellability

**Hachimori, Masahiro** (*with* Ziegler, Günter M.) Decompositons of simplicial balls and

spheres with knots consisting of few edges. (English summary) **2001m:52017**
— Constructible complexes and recursive division of posets. (English summary) **2001d:52023**
**Ziegler, Günter M.** *see* **Hachimori, Masahiro, 2001m:52017**

Items with secondary classifications in 52B22

**Chari, Manoj K.** On discrete Morse functions and combinatorial decompositions. (English and French summaries) **2001g:52016**
**Feichtner, Eva Maria** (*with* Kozlov, Dmitry N.) On subspace arrangements of type $\mathcal{D}$. (English summary) **2001k:52039**
**Herzog, Jürgen** (*with* Li Marzi, Enzo Maria) Bounds for the Betti numbers of shellable simplicial complexes and polytopes. **2001b:13017**
**Kozlov, Dmitry N.** *see* **Feichtner, Eva Maria, 2001k:52039**
**Lee, Carl W.** Kalai's squeezed spheres are shellable. (English summary) **2001d:05007**
**Li Marzi, Enzo Maria** *see* **Herzog, Jürgen, 2001b:13017**
**Peeva, Irena** (*with* Reiner, Victor; Welker, Volkmar) Cohomology of real diagonal subspace arrangements via resolutions. (English summary) **2001c:13021**
**Reiner, Victor** *see* **Peeva, Irena et al., 2001c:13021**
**Welker, Volkmar** *see* **Peeva, Irena et al., 2001c:13021**

## 52B35 Gale and other diagrams

**Bokowski, Jürgen** (*with* Guedes de Oliveira, A.) On the generation of oriented matroids. (English summary) **2001j:52017**
**Guedes de Oliveira, A.** *see* **Bokowski, Jürgen, 2001j:52017**
**Kleinschmidt, Peter** *see* **Wood, G. R. et al., 2001m:52018**
**McDowall, Stephen R.** *see* **Wood, G. R. et al., 2001m:52018**
**Wood, G. R.** (*with* McDowall, Stephen R.; Kleinschmidt, Peter) Constructing infinite-dimensional polytopes using Gale transforms. (English summary) **2001m:52018**

Items with secondary classifications in 52B35

**Azaola, M.** (*with* Santos, Francisco) The graph of triangulations of a point configuration with $d+4$ vertices is 3-connected. (English summary) **2001b:05126**
**Santos, Francisco** *see* **Azaola, M., 2001b:05126**
**Welzl, Emo** Entering and leaving $j$-facets. (English summary) **2001m:52013**

## 52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [see also 05B35, 52Cxx]

**Borovik, Alexandre V.** (*with* Gel'fand, Izrail' Moiseevich; White, Neil) Combinatorial flag varieties. **2001m:52019**
**Chervyakov, O. V.** Affine symmetries of an independence system polyhedron. (Russian. English summary) **2001f:52028**
— Affine symmetries of the polytope of an independence system with unit shift. (Russian. Russian summary) **2001f:52029**
**Cordovil, Raul** (*with* Duchet, Pierre) Cyclic polytopes and oriented matroids. (English summary) **2001g:52020**
**Duchet, Pierre** *see* **Cordovil, Raul, 2001g:52020**
**Gel'fand, Izrail' Moiseevich** *see* **Borovik, Alexandre V. et al., 2001m:52019**
**White, Neil** *see* **Borovik, Alexandre V. et al., 2001m:52019**

Items with secondary classifications in 52B40

**Alekseevskaya, T. V.** (*with* Borovik, Alexandre V.; Gel'fand, Izrail' Moiseevich; White, Neil) Matroid homology. (English summary) **2001c:05036**
**Azaola, M.** (*with* Santos, Francisco) The graph of triangulations of a point configuration with $d+4$ vertices is 3-connected. (English summary) **2001b:05126**
**Borovik, Alexandre V.** *see* **Alekseevskaya, T. V. et al., 2001c:05036**
**Cordovil, Raul** (*with* Fukuda, Komei; Guedes de Oliveira, A.) On the cocircuit graph of an oriented matroid. (English summary) **2001g:05032**
**Fern, Lori** (*with* Gordon, Gary; Leasure, Jason; Pronchik, Sharon) Matroid automorphisms and symmetry groups. (English summary) **2001g:05034**
**Fukuda, Komei** *see* **Cordovil, Raul et al., 2001g:05032**
**Gel'fand, Izrail' Moiseevich** *see* **Alekseevskaya, T. V. et al., 2001c:05036**
**Gordon, Gary** *see* **Fern, Lori et al., 2001g:05034**
**Guedes de Oliveira, A.** *see* **Cordovil, Raul et al., 2001g:05032**
**Joswig, Michael** (*with* Ziegler, Günter M.) Neighborly cubical polytopes. (English summary) **2001f:52019**
**Krüger, Ulrich** Structural aspects of ordered polymatroids. (English summary) **2001b:90143**
**Leasure, Jason** *see* **Fern, Lori et al., 2001g:05034**
**Pronchik, Sharon** *see* **Fern, Lori et al., 2001g:05034**
**Santos, Francisco** *see* **Azaola, M., 2001b:05126**
**White, Neil** *see* **Alekseevskaya, T. V. et al., 2001c:05036**
**Ziegler, Günter M.** *see* **Joswig, Michael, 2001f:52019**

## 52B45 Dissections and valuations (Hilbert's third problem, etc.)

**Below, A.** (*with* Brehm, U.; De Loera, Jesús A.; Richter-Gebert, J.) Minimal simplicial dissections and triangulations of convex 3-polytopes. (English summary) **2001g:52021**
**Brehm, U.** *see* **Below, A. et al., 2001g:52021**
**De Loera, Jesús A.** *see* **Below, A. et al., 2001g:52021**
**Dupont, Johan L.** (*with* Sah, Chih-Han) Three questions about simplices in spherical and hyperbolic 3-space. (English summary) **2001b:52023**
**Frederickson, Greg N.** Geometric dissections now swing and twist.
**Hertel, Eike** Self-similar simplices. (English summary) **2001k:52020**
**Ito, Hiro** (*with* Uehara, Hideyuki; Yokoyama, Mitsuo) 2-dimension ham sandwich theorem for partitioning into three convex pieces. (English summary) (*see* **2001e:68008**)
**Kaiser, M. J.** The $n$-point and six-partite point of a convex polygon. (English summary)
**Klain, Daniel A.** An Euler relation for valuations on polytopes. (English summary) **2001i:52021**
**Panina, G. Yu.** Canonical decompositions of polyhedral functions and homogeneity problems in a projective space. (Russian. English and Russian summaries) **2001d:52024**
**Richter-Gebert, J.** *see* **Below, A. et al., 2001g:52021**
**Sah, Chih-Han** *see* **Dupont, Johan L., 2001b:52023**
**Skinner, J. D., II** (*with* Smith, C. A. B.; Tutte, William T.) On the dissection of rectangles into right-angled isosceles triangles. (English summary) **2001k:52021**
**Smith, C. A. B.** *see* **Skinner, J. D., II et al., 2001k:52021**
**Tutte, William T.** *see* **Skinner, J. D., II et al., 2001k:52021**
**Uehara, Hideyuki** *see* **Ito, Hiro et al., (2001e:68008)**
**Weißbach, Bernulf** Sets with large Borsuk number. (English summary) **2001k:52022**
**Yokoyama, Mitsuo** *see* **Ito, Hiro et al., (2001e:68008)**

Items with secondary classifications in 52B45

**Aguiló, Francesc** (*with* Fiol, Miguel A.; Fiol, Maria Lluïsa) Periodic tilings as a dissection method. **2001c:52026**
**Akiyama, Jin** (*with* Kaneko, Atsushi; Kano, Mikio; Nakamura, Gisaku; Rivera-Campo, Eduardo; Tokunaga, Shin-ichi; Urrutia, Jorge) Radial perfect partitions of convex sets in the plane. (English summary) (*see* **2001e:68008**)
— (*with* Nakamura, Gisaku) Dudeney dissection of polygons. (English summary) (*see* **2001e:68008**)
**Callahan, Kevin** (*with* Hann, Kathy) An Euler-type volume identity. (English summary) **2001h:52002**
**Ding, Ren** (*with* Schattschneider, Doris; Zamfirescu, Tudor) Tiling the pentagon. (English summary) **2001e:52037**
**Dulio, Paolo** (*with* Peri, Carla) Invariant valuations on spherical star sets. (English summary) **2001i:52008**
**Edelsbrunner, Herbert** (*with* Grayson, Daniel R.) Edgewise subdivision of a simplex. (English summary) (*see* **2001g:68004**)
**Fiol, Maria Lluïsa** *see* **Aguiló, Francesc et al., 2001c:52026**
**Fiol, Miguel A.** *see* **Aguiló, Francesc et al., 2001c:52026**
**Gambini, Ian** A method for cutting squares into distinct squares. (English summary) **2001b:05058**
**Grayson, Daniel R.** *see* **Edelsbrunner, Herbert, (2001g:68004)**
**Hann, Kathy** *see* **Callahan, Kevin, 2001h:52002**
**Kaneko, Atsushi** *see* **Akiyama, Jin et al., (2001e:68008)**
**Kano, Mikio** *see* **Akiyama, Jin et al., (2001e:68008)**
**Keil, J. Mark** Polygon decomposition. (*see* **2001d:68226**)
**Klain, Daniel A.** (*with* Rota, Gian-Carlo) ★ Introduction to geometric probability. (English summary) **2001f:52009**
**Kranakis, Evangelos** (*with* Krizanc, Danny; Urrutia, Jorge) Efficient regular polygon dissections. (English summary) (*see* **2001e:68008**)
— (*with* Krizanc, Danny; Urrutia, Jorge) Efficient regular polygon dissections. (English summary) **2001g:52024**
**Krizanc, Danny** *see* **Kranakis, Evangelos et al., 2001g:52024** *and* **(2001e:68008)**
**Nakamura, Gisaku** *see* **Akiyama, Jin et al., (2001e:68008)** *and* **(2001e:68008)**
**Peri, Carla** *see* **Dulio, Paolo, 2001i:52008**
**Rivera-Campo, Eduardo** *see* **Akiyama, Jin et al., (2001e:68008)**
**Rota, Gian-Carlo** *see* **Klain, Daniel A., 2001f:52009**
**Santos, Francisco** A point set whose space of triangulations is disconnected. **2001f:52026**
**Schattschneider, Doris** *see* **Ding, Ren et al., 2001e:52037**
**Tokunaga, Shin-ichi** *see* **Akiyama, Jin et al., (2001e:68008)**
**Urrutia, Jorge** *see* **Kranakis, Evangelos et al., 2001g:52024**; **(2001e:68008)** *and* **Akiyama, Jin et al., (2001e:68008)**
**Zamfirescu, Tudor** *see* **Ding, Ren et al., 2001e:52037**

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# 52Cxx Discrete geometry

## 52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

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## 52C07 Lattices and convex bodies in $n$ dimensions [see also 11H06, 11H31, 11P21]

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**Gribanova, I. A.** Gaussian curvatures of dual surfaces. (Russian. English summary) **2001c:53005**
**Grigis, A.** *see* **Dartois, G., 2001c:52011**
**Haase, Christian** (*with* Ziegler, Günter M.) On the maximal width of empty lattice simplices. (English summary) **2001a:52006**
**Harada, Masaaki** *see* **Dougherty, Steven T. et al., 2001i:11084**
**Kantor, Jean-Michel** *see* **Bárány, Imre, 2001c:52005**
**Lagarias, Jeffrey C.** Mathematical quasicrystals and the problem of diffraction. (English summary) **2001m:52032**
**Markov, Svetoslav M.** On the algebraic properties of convex bodies and related algebraic systems. (English summary) **2001a:52001**
**Nikulin, Vyacheslav V.** On the classification of hyperbolic root systems of rank three. (Russian. English and Russian summaries) **2001m:17034**
**Prabhu, Nagabhushana** Sections of simplices. (English summary) **2001c:52007**
**Ramharter, G.** On the densities of certain lattice packings by parallelepipeds. (English summary) **2001k:11122**
**Santini, Paolo Maria** *see* **Doliwa, Adam, 2001i:37107**
**Shtogrin, Mikhail** *see* **Deza, Michel-Marie, 2001i:52031**
**Smith, Edwin H.** A bound on the ratio between the packing and covering densities of a convex body. (English summary) **2001a:52017**
**Solé, Patrick** *see* **Dougherty, Steven T. et al., 2001i:11084**
**Ziegler, Günter M.** *see* **Haase, Christian, 2001a:52006**

## 52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

**Bálint, Vojtech** On a connection between unit circles and horocycles determined by $n$ points. (English summary) **2001b:52029**
**Benda, M.** (*with* Perles, M.) Colorings of metric spaces. (English summary) **2001b:52031**
— *see also* **Johnson, Peter D., Jr., 2001b:52030**
**Daurat, A.** (*with* Del Lungo, Alberto; Nivat, Maurice) Medians of discrete sets according to a linear distance. (English summary) **2001c:52017**
**Del Lungo, Alberto** *see* **Daurat, A. et al., 2001c:52017**
**Dumitrescu, Adrian** Planar sets with few empty convex polygons. (English summary) **2001f:52037**
**Elekes, György** On linear combinatorics. III. Few directions and distorted lattices. (English summary) **2001k:52026**
— A note on the number of distinct distances. (English summary) **2001c:52018**
**Fishburn, Peter C.** On an Erdős problem for distinct distances in convex polygons. (English summary) **2001h:52012**
**Francis, John** Some combinatorial geometry for convex quadrilaterals. (English summary) (*see* **2001d:52001**)
**Johnson, Peter D., Jr.** Introduction to: "Colorings of metric spaces" [Geombinatorics **9** (2000), no. 3, 113–126; MR 2001b:52031] by M. Benda and M. Perles. **2001b:52030**
**Károlyi, Gyula** (*with* Tóth, Géza) An Erdős-Szekeres type problem in the plane. **2001j:52026**
**Kuzminykh, A. V.** Sets with "almost natural" distances. **2001g:52026**
**Morris, Walter D., Jr.** (*with* Soltan, V.) The Erdős-Szekeres problem on points in convex position—a survey. (English summary) **2001e:52030**

**Nielsen, Mark J.** (*with* Sabo, Dusty E.) Transverse families of matchings in the plane. (English summary) **2001e:52031**
**Nivat, Maurice** *see* **Daurat, A. et al., 2001c:52017**
**Pach, János** (*with* Spencer, Joel H.) Uniformly distributed distances—a geometric application of Janson's inequality. (English summary) **2001c:52019**
— (*with* Tóth, Géza) Erdős-Szekeres-type theorems for segments and noncrossing convex sets. (English summary) **2001g:52027**
**Perles, M.** *see* **Johnson, Peter D., Jr., 2001b:52030** *and* **Benda, M., 2001b:52031**
**Sabo, Dusty E.** *see* **Nielsen, Mark J., 2001e:52031**
**Soltan, V.** *see* **Morris, Walter D., Jr., 2001e:52030**
**Spencer, Joel H.** *see* **Pach, János, 2001c:52019**
**Tóth, Géza** *see* **Pach, János, 2001g:52027** *and* **Károlyi, Gyula, 2001j:52026**

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**Bezdek, Károly** (*with* Blekherman, Grigoriy) Danzer-Grünbaum's theorem revisited. (English summary) **2001e:52010**
— (*with* Lángi, Zsolt) Almost equidistant points on $S^{d-1}$. (English summary) **2001e:51011**
**Blekherman, Grigoriy** *see* **Bezdek, Károly, 2001e:52010**
**Cho, Kyu In** *see* **Park, Jong Youll et al.**
**Dress, Andreas W. M.** The theorem of the $k-1$ happy divorces. (English summary) **2001b:05004**
**Kim, Dong-Soo** *see* **Park, Jong Youll et al.**
**Kim, Seon-Bu** *see* **Park, Jong Youll et al.**
**Kupitz, Yaakov S.** (*with* Martini, Horst) On the weak circular intersection property. (English summary) **2001h:52001**
**Kuzyurin, N. N.** Explicit constructions of Rödl's asymptotically good packings and coverings. (English summary) **2001f:05046**
**Lángi, Zsolt** *see* **Bezdek, Károly, 2001e:51011**
**Martini, Horst** *see* **Kupitz, Yaakov S., 2001h:52001**
**McGuinness, Sean** Colouring arcwise connected sets in the plane. I. (English summary) **2001k:05077**
**Pach, János** Geometric graph theory. (English summary) **2001b:05157**
**Park, Jong Youll** (*with* Kim, Seon-Bu; Kim, Dong-Soo; Cho, Kyu In) Are there any numbers other than the Euler number for polyhedra? (Korean. Korean summary)
**Soifer, Alexander** Packing clones in convex figures. **2001c:52022**
**Tóth, Géza** Point sets with many $k$-sets. (English summary) **2001k:05200**
**Valtr, Pavel** Generalizations of Davenport-Schinzel sequences. (English summary) **2001d:68185**

## 52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

**Abbott, H. L.** (*with* Katchalski, M.) Covering squares with squares. (English summary) **2001f:52038**
**Adhikari, Sukumar Das** (*with* Balasubramanian, Ramachandran; Thangadurai, R.) Further remarks on Steinhaus sets. (English summary) **2001k:52027**
**Alon, Noga** (*with* Bóna, Miklós; Spencer, Joel H.) Packing Ferrers shapes. (English summary) **2001e:52032**
**Ament, P.** (*with* Blind, G.) Packing equal circles in a square. (English summary) **2001i:52023**
**Andreev, Nikolaĭ N.** (*with* Yudin, Vladimir Aleksandrovich) Problems of approximation theory in discrete geometry. (English summary) **2001m:52023**
**Aurenhammer, Franz** (*with* Klein, Rolf) Voronoi diagrams. (*see* **2001d:68226**)
**Balasubramanian, Ramachandran** *see* **Adhikari, Sukumar Das et al., 2001k:52027**
**Banakh, T. O.** Solution of a problem on the coloring of an integral area. (Ukrainian) **2001b:52032**
**Barykinskiĭ, R. G.** *see* **Ryshkov, S. S. et al., 2001i:52024**
**Bezdek, András** Covering a convex polygon by triangles. (English summary) **2001c:52020**
**Blind, G.** *see* **Ament, P., 2001i:52023**
**Bóna, Miklós** *see* **Alon, Noga et al., 2001e:52032**
**Chalcraft, Adam** Perfect square packings. (English summary) **2001m:52024**
**Collins, Robert** *see* **Ogawa, Tohru**
**Dolbilin, Nikolai P.** (*with* Shtan'ko, M. A.; Shtogrin, Mikhail) Rigidity of a quadrillage of a torus by squares. (Russian) **2001c:52021**
**El Moumni, S.** Optimal packings of unit squares in a square. (English summary) **2001d:52028**
**Florian, August** (*with* Heppes, Aladár) Packing circles of two different sizes on the sphere. II. (English summary) **2001h:52013**
— (*with* Heppes, Aladár) Solid coverings of the Euclidean plane with incongruent circles. (English summary) **2001a:52012**
**Friedman, Erich** $n$-vex shapes. **2001f:52039**
**Gruber, Peter M.** In many cases optimal configurations are almost regular hexagonal. (English summary) **2001m:52025**
**Heppes, Aladár** On the densest packing of discs of radius 1 and $\sqrt{2}-1$. (English summary) **2001g:52028**
— *see also* **Florian, August, 2001a:52012** *and* **2001h:52013**
**Ignatenko, I. I.** *see* **Ivanov, N. N., 2001a:52013**
**Ivanov, N. N.** (*with* Ignatenko, I. I.) The problem of cutting a rectangular sheet into pieces of unit width. (Russian. English and Russian summaries) **2001a:52013**
**Januszewski, Janusz** Packing rectangles into the unit square. (English summary) **2001d:52029**
**Katchalski, M.** *see* **Abbott, H. L., 2001f:52038**
**Kemnitz, Arnfried** (*with* Szabó, László[2]; Ujváry-Menyhárt, Zoltán) Protecting regular polygons. (English summary) **2001h:52014**
**Klein, Rolf** *see* **Aurenhammer, Franz, (2001d:68226)**
**Kucherinenko, Ya. V.** *see* **Ryshkov, S. S. et al., 2001i:52024**
**Kuperberg, Greg** Notions of denseness. (English summary) **2001m:52026**
**Novotný, Pavel** On packing of four and five squares into a rectangle. (English summary) **2001m:52027**
— A note on packing clones.
**Ogawa, Tohru** (*with* Collins, Robert) Chains, flowers, rings and peanuts: graphical geodesic lines and their application to Penrose tiling. (English summary)
**Patsuk, V. N.** A method for constructing the densest double lattice packing for two different polygons in a plane. (Russian. English summary) **2001a:52014**
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**Ryshkov, S. S.** (*with* Barykinskiĭ, R. G.; Kucherinenko, Ya. V.) Solution of the basic problems of discrete geometry on the plane. **2001i:52024**
**Schürmann, Achill** On parametric density of finite circle packings. (English summary) **2001i:52025**
**Shtan'ko, M. A.** *see* **Dolbilin, Nikolai P. et al., 2001c:52021**
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**Soifer, Alexander** Packing clones in convex figures. **2001c:52022**
**Spencer, Joel H.** *see* **Alon, Noga et al., 2001e:52032**
**Swanepoel, Konrad J.** Gaps in convex disc packings with an application to 1-Steiner minimum trees. (English summary) **2001a:52015**
**Szabó, László[2]** *see* **Kemnitz, Arnfried et al., 2001h:52014**
**Thangadurai, R.** *see* **Adhikari, Sukumar Das et al., 2001k:52027**
**Ujváry-Menyhárt, Zoltán** *see* **Kemnitz, Arnfried et al., 2001h:52014**
**Weißbach, Bernulf** On a covering problem in the plane. (English summary) **2001h:52016**
**Yudin, Vladimir Aleksandrovich** *see* **Andreev, Nikolaĭ N., 2001m:52023**
**Zalgaller, V. A.** A remark on a convex $k$-gon of minimal area circumscribed about a convex $n$-gon. (Russian. English and Russian summaries) **2001e:52033**

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**Aste, Tomaso** (*with* Weaire, Denis) ★ The pursuit of perfect packing. (English summary) **2001g:52001**
**Boll, David W.** (*with* Donovan, Jerry; Graham, Ronald L.; Lubachevsky, Boris D.) Improving dense packings of equal disks in a square. (English summary) **2001f:05044**
**Bose, Prosenjit** (*with* Czyzowicz, Jurek; Kranakis, Evangelos; Maheshwari, Anil) Algorithms for packing two circles in a convex polygon. (English summary) (*see* **2001e:68008**)
**Cong, Xuan Zhong** *see* **Song, Qing Gong et al.**
**Czyzowicz, Jurek** *see* **Bose, Prosenjit et al., (2001e:68008)**
**Dai, Zhan Hai** *see* **Song, Qing Gong et al.**
**Donovan, Jerry** *see* **Boll, David W. et al., 2001f:05044**
**Dumitrescu, Adrian** (*with* Steiger, William) On a matching problem in the plane. (English summary) **2001b:05056**
**Funar, Louis** (*with* Grimaldi, Renata) On the spectrum obtained from packing balls on Riemann manifolds. (English summary) **2001k:53073**
**Graham, Ronald L.** *see* **Boll, David W. et al., 2001f:05044**
**Grimaldi, Renata** *see* **Funar, Louis, 2001k:53073**
**Heppes, Aladár** Densest circle packing on the flat torus. (English summary) **2001i:52034**
**Ishigami, Yoshiyasu** How many diagonal rectangles are needed to cover an orthogonal polygon? (English summary) **2001g:05038**
**Jonasson, Johan** (*with* Schramm, Oded) On the cover time of planar graphs. (English summary) **2001g:60170**
**Kramer, Peter** Delone clusters, covering and linkage in the quasiperiodic triangle tiling. (English summary) **2001m:52031**
**Kranakis, Evangelos** *see* **Bose, Prosenjit et al., (2001e:68008)**
**Lee, Der Tsai** Computational geometry. II. (*see* **2001f:68001**)
**Lubachevsky, Boris D.** *see* **Boll, David W. et al., 2001f:05044**
**Maheshwari, Anil** *see* **Bose, Prosenjit et al., (2001e:68008)**
**Nikonorov, Yu. G.** Tesselations for multidimensional parallelepipeds. (Russian. Russian summary) **2001h:52017**
**Ogama, T.** *see* **O'Keeffe, M. et al., 2001m:52033**
**O'Keeffe, M.** (*with* Plévert, J.; Teshima, Yoshinori; Watanabe, Yasunari; Ogama, T.) The invariant cubic rod (cylinder) packings: symmetries and coordinates. (English summary) **2001m:52033**
**Penrose, Oliver** (*with* Stell, George) Close to close packing. (English summary) **2001h:82021**
**Plévert, J.** *see* **O'Keeffe, M. et al., 2001m:52033**
**Schramm, Oded** *see* **Jonasson, Johan, 2001g:60170**
**Song, Qing Gong** (*with* Dai, Zhan Hai; Cong, Xuan Zhong; Wei, Huan; Zhang, Qing Jun) Ordered structures of binary alloy with hexagonal close-packed lattice. (Chinese. English and Chinese summaries)
**Steiger, William** *see* **Dumitrescu, Adrian, 2001b:05056**
**Stell, George** *see* **Penrose, Oliver, 2001h:82021**
**Teshima, Yoshinori** *see* **O'Keeffe, M. et al., 2001m:52033**
**Watanabe, Yasunari** *see* **O'Keeffe, M. et al., 2001m:52033**
**Weaire, Denis** *see* **Aste, Tomaso, 2001g:52001**
**Wei, Huan** *see* **Song, Qing Gong et al.**
**Zhang, Qing Jun** *see* **Song, Qing Gong et al.**

## 52C17 Packing and covering in $n$ dimensions [see also 05B40, 11H31]

**Bezdek, Károly** (*with* Daróczy Kiss, Endre; Liu, Kai Ju) Voronoi polyhedra of unit ball packings with small surface area. (English summary) **2001m:52029**
— A lower bound for the mean width of Voronoi polyhedra of unit ball packings in $E^3$. (English summary) **2001e:52034**
— On rhombic dodecahedra. (English summary) **2001m:52028**
— On a stronger form of Rogers's lemma and the minimum surface area of Voronoi cells in unit ball packings. (English summary) **2001b:52033**
**Bognár Máthé, Katalin** (*with* Böröczky, Károly) Regular polyhedra and Hajós polyhedra. **2001c:52023**
**Böröczky, Károly** *see* **Bognár Máthé, Katalin, 2001c:52023**
**Böröczky, Károly, Jr.** (*with* Larman, D. G.; Sezgin, S.; Zong, C.) On generalized kissing numbers and blocking numbers. (English summary) **2001k:52028**

**Braß, Peter** (*with* Wenk, Carola) On the number of cylinders touching a ball. (English summary) **2001c:52024**
**Daróczy Kiss, Endre** *see* **Bezdek, Károly et al., 2001m:52029**
**(Ferguson, Samuel P.)** *see* **Oesterlé, Joseph, 2001k:52030**
**Grove, L.** (*with* Yiparaki, O.) Contumacious spheres. **2001e:52035**
**(Hales, Thomas C.)** *see* **Oesterlé, Joseph, 2001k:52030**
**Henk, Martin** (*with* Ziegler, Günter M.) Kugeln im Computer—die Kepler-Vermutung. [Balls in the computer—Kepler's conjecture]
**Januszewski, Janusz** (*with* Lassak, Marek) On-line covering by boxes and by convex bodies. (English summary)
**Larman, D. G.** *see* **Böröczky, Károly, Jr. et al., 2001k:52028**
**Lassak, Marek** *see* **Januszewski, Janusz**
**Liu, Kai Ju** *see* **Bezdek, Károly et al., 2001m:52029**
**Maehara, Hiroshi** (*with* Noha, Hiroshi) Arranging solid balls on a table to make a $k$-component link. (English summary) **2001b:52034**
— On families of nonoverlapping balls. (English summary) **2001k:52029**
**Matoušek, Jiří** On approximate geometric $k$-clustering. (English summary) **2001e:52036**
**Nikonorov, Yu. G.** Tesselations for multidimensional parallelepipeds. (Russian. Russian summary) **2001h:52017**
**Noha, Hiroshi** *see* **Maehara, Hiroshi, 2001b:52034**
**Nurmela, Kari J.** Conjecturally optimal coverings of an equilateral triangle with up to 36 equal circles. (English summary) **2001g:52029**
**Oesterlé, Joseph** Densité maximale des empilements de sphères en dimension 3 (d'après Thomas C. Hales et Samuel P. Ferguson). (French summary) [Maximal density of three-dimensional sphere packings (following Thomas C. Hales and Samuel P. Ferguson)] **2001k:52030**
**Rybnikov, K. A., Jr.** Stresses and liftings of cell-complexes. (English summary) **2001a:52016**
**Schnell, Uwe** (*with* Wills, Jörg M.) Densest packings of more than three $d$-spheres are nonplanar. (English summary) **2001i:52026**
— FCC versus HCP via parametric density. (English summary) **2001f:52040**
**Sezgin, S.** *see* **Böröczky, Károly, Jr. et al., 2001k:52028**
**Smith, Edwin H.** A density bound for efficient packings of 3-space with centrally symmetric convex bodies. (English summary) **2001a:52018**
— A bound on the ratio between the packing and covering densities of a convex body. (English summary) **2001a:52017**
**Talata, István** On extensive subsets of convex bodies. (English summary) **2001b:52035**
— A lower bound for the translative kissing numbers of simplices. (English summary) **2001d:52030**
— On translational clouds for a convex body. (English summary) **2001f:52041**
**Wenk, Carola** *see* **Braß, Peter, 2001c:52024**
**Wills, Jörg M.** The Wulff-shape of large periodic sphere packings. (English summary) **2001k:52031**
— *see also* **Schnell, Uwe, 2001i:52026**
**Yiparaki, O.** *see* **Grove, L., 2001e:52035**
**Ziegler, Günter M.** *see* **Henk, Martin**
**Zong, C.** *see* **Böröczky, Károly, Jr. et al., 2001k:52028**

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**Arestov, V. V.** (*with* Babenko, A. G.) Some properties of solutions of a Delsarte-type problem and its dual. (Russian. English and Russian summaries) **2001f:94025**
**Aste, Tomaso** (*with* Weaire, Denis) ★ The pursuit of perfect packing. (English summary) **2001g:52001**
**Babenko, A. G.** *see* **Arestov, V. V., 2001f:94025**
**Betke, Ulrich** (*with* Henk, Martin) Densest lattice packings of 3-polytopes. (English summary) **2001h:52010**
**Bierbrauer, Jürgen** (*with* Edel, Yves) Dense sphere packings from new codes. (English summary)
**Böröczky, Károly, Jr.** (*with* Schnell, Uwe; Wills, Jörg M.) Quasicrystals, parametric density, and Wulff-shape. (English summary) **2001m:82083**
**Chekmasov, M. V.** Application of probability methods to the problem of construction of optimal coverings. (English summary)
**Daróczy Kiss, Endre** On the minimum intrinsic 1-volume of Voronoi cells in lattice unit sphere packings. (English summary) **2001e:52012**
**Edel, Yves** *see* **Bierbrauer, Jürgen**
**Forcade, Rod** (*with* Lamoreaux, Jack) Lattice-simplex coverings and the 84-shape. (English summary) **2001j:05053**
**Funar, Louis** (*with* Grimaldi, Renata) On the spectrum obtained from packing balls on Riemann manifolds. (English summary) **2001k:53073**
**Grimaldi, Renata** *see* **Funar, Louis, 2001k:53073**
**Hales, Thomas C.** (*with* Sarnak, Peter; Pugh, M. C.) Advances in random matrix theory, zeta functions, and sphere packing. (English summary) **2001k:11121**
**Henk, Martin** *see* **Betke, Ulrich, 2001h:52010**
**Hiyoshi, Hisamoto** (*with* Sugihara, Kokichi) An interpolant based on line segment Voronoi diagrams. (English summary) (*see* **2001e:68008**)
**Hujter, Mihály** Partitioning the $N$-space into collinear sets of orthants. (English summary) **2001m:05189**
**Kuperberg, Greg** Notions of denseness. (English summary) **2001m:52026**
**Lamoreaux, Jack** *see* **Forcade, Rod, 2001j:05053**
**Martello, Silvano** (*with* Pisinger, David; Vigo, Daniele) The three-dimensional bin packing problem. (English summary) **2001c:90061**
**Mishra, Bhubaneswar** *see* **Teichmann, M., 2001c:70003**
**Ogama, T.** *see* **O'Keeffe, M. et al., 2001m:52033**
**O'Keeffe, M.** (*with* Plévert, J.; Teshima, Yoshinori; Watanabe, Yasunari; Ogama, T.) The invariant cubic rod (cylinder) packings: symmetries and coordinates. (English summary) **2001m:52033**
**Padberg, Manfred** Packing small boxes into a big box. (English summary) **2001f:90062**
**Pisinger, David** *see* **Martello, Silvano et al., 2001c:90061**
**Plévert, J.** *see* **O'Keeffe, M. et al., 2001m:52033**
**Pugh, M. C.** *see* **Hales, Thomas C. et al., 2001k:11121**
**Ralgorodskiĭ, A. M.** The Borsuk problem for (0, 1)-polyhedra and cross polytopes. (Russian) **2001h:52008**
**Sarnak, Peter** *see* **Hales, Thomas C. et al., 2001k:11121**
**Schmitt, Dominique** (*with* Spehner, Jean-Claude) Order-$k$ Voronoi diagrams, $k$-sections, and $k$-sets. (English summary) (*see* **2001e:68008**)
**Schmutz Schaller, Paul** Platonische Körper, Kugelpackungen und hyperbolische Geometrie. (German summary) [Platonic surfaces, sphere packings and hyperbolic geometry] **2001m:51026**
**Schnell, Uwe** *see* **Böröczky, Károly, Jr. et al., 2001m:82083**
**Schulten, Klaus** (*with* Zeller, Michael) Topology representing maps and brain function.
**Spehner, Jean-Claude** *see* **Schmitt, Dominique, (2001e:68008)**
**Sugihara, Kokichi** *see* **Hiyoshi, Hisamoto, (2001e:68008)**
**Teichmann, M.** (*with* Mishra, Bhubaneswar) Probabilistic algorithms for efficient grasping and fixturing. (English summary) **2001c:70003**
**Teshima, Yoshinori** *see* **O'Keeffe, M. et al., 2001m:52033**
**Vigo, Daniele** *see* **Martello, Silvano et al., 2001c:90061**
**Wang, Cao An** (*with* Yang, Bo-Ting; Zhu, Binhai) On some polyhedra covering problems. (English summary) **2001i:90124**
**Wang, Jie[1]** Packing of unequal spheres and automated radiosurgical treatment planning. (English summary) **2001a:05036**
**Watanabe, Yasunari** *see* **O'Keeffe, M. et al., 2001m:52033**
**Weaire, Denis** A short history of packing problems. (English summary) **2001e:01005**
— *see also* **Aste, Tomaso, 2001g:52001**
**Wills, Jörg M.** *see* **Böröczky, Károly, Jr. et al., 2001m:82083**
**Wu, Q. Jackie** Sphere packing using morphological analysis. (English summary) **2001j:92019**
**Yang, Bo-Ting** *see* **Wang, Cao An et al., 2001i:90124**
**Yudin, Vladimir Aleksandrovich** *see* **Andreev, Nikolai N., 2001m:52023**
**Zeller, Michael** *see* **Schulten, Klaus**
**Zhang, Guo Chuan** An on-line bin-batching problem. (English summary) **2001i:68172**
**Zhu, Binhai** *see* **Wang, Cao An et al., 2001i:90124**

## 52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

**Agarwal, Pankaj K.** (*with* Basch, Julien; Guibas, Leonidas J.; Hershberger, John; Zhang, Li) Deformable free space tilings for kinetic collision detection. (English summary)
**Basch, Julien** *see* **Agarwal, Pankaj K. et al.**
**Bölcskei, Attila** Classification of unilateral and equitransitive tilings by squares of three sizes. (English summary) **2001b:52036**
**Broughton, S. Allen** (*with* Haney, Dawn M.; McKeough, Lori T.; Mayfield, Brandy Smith) Divisible tilings in the hyperbolic plane. (English summary) **2001h:52018**
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**Felix, Rene P.** *see* **Sales, Reamar Eileen R., (2001d:00063)**
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## 52C23 Quasicrystals, aperiodic tilings

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**Herrmann, D. J. L.** Quasicrystals and Denjoy homeomorphisms. (English summary) **2001h:37035**
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**Mermin, N. David** (Quasi)crystallography is better in Fourier space. (*see* **2001g:82107**)
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**Ogawa, Tohru** (*with* Collins, Robert) Chains, flowers, rings and peanuts: graphical geodesic lines and their application to Penrose tiling. (English summary)
**Parisi, Giorgio** *see* **Leuzzi, Luca, 2001e:82028**
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## 52C25 Rigidity and flexibility of structures [see also 70B15]

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**Franzblau, Deborah S.** Generic rigidity of molecular graphs via ear decomposition. (English summary) **2001c:52030**
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**Guest, S. D.** Mechanisms of the icosahedral compound of ten tetrahedra. (English summary) **2001j:52030**
**Guibas, Leonidas J.** (*with* Hershberger, John; Suri, Subhash) Morphing simple polygons. (English summary) **2001e:52041**
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**Efrat, Alon** *see* **Aronov, Boris et al., 2001m:52035**
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**Ahn, Hee-Kap** (*with* Bose, Prosenjit; Czyzowicz, Jurek; Hanusse, Nicolas; Kranakis, Evangelos; Morin, Pat) Flipping your lid.
**Bose, Prosenjit** *see* **Ahn, Hee-Kap et al.**
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# 53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

## 53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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**Li, Hongbo** Mechanical theorem proving in differential geometry.

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# 53Axx Classical differential geometry

## 53A04 Curves in Euclidean space

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## 53A07 Higher-dimensional and -codimensional surfaces in Euclidean $n$-space

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## 53A10 Minimal surfaces, surfaces with prescribed mean curvature [see also 49Q05, 49Q10, 53C42]

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**Stasiak, Eugeniusz** Scalar concomitants of a system of vectors in pseudo-Euclidean geometry of index 1. (English summary) **2001g:53022**
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**(Goldberg, Vladislav V.)** *see* **Webs & quasigroups, 2001m:53005**
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**Konik, Tadeusz** On the sets of the classes $\widetilde{M}_{p,k}$. (English summary) **2001h:53023**
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# 53Bxx Local differential geometry

## 53B05 Linear and affine connections

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**Çivi, Gülçin** On the Bianchi identities in a generalized Weyl space. (English summary) **2001k:53021**
**De, U. C.** (*with* Kamailya, D.) On a type of semi-symmetric metric connection of a Riemannian manifold.
**Hiricâ, Iulia Elena** On semi-symmetric connections on Weyl generalized manifolds. (English summary) **2001j:53023**
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**Mayra, A.** *see* **Tarafdar, M., 2001f:53042**
**Minčić, Svetislav M.** Some characteristics of curvature tensors of nonsymmetric affine connexion. (English summary) **2001f:53041**
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**Mishra, Indu Kala** (*with* Ojha, Ram Hit) On Lorentzian para contact manifolds. **2001m:53029**
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**Olszak, Zbigniew** (*with* Słuka, Karina) On the existence of affine connections with recurrent projective curvature. (English summary) **2001e:53019**
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**Singh, Hukum** (*with* Khan, Quddus) On symmetric Riemannian manifolds. (English summary) **2001g:53029**
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**Kadıoğlu, Ekrem** *see* **Mağden, A. et al., 2001i:53041**
**Lee, Isaac Chaujun** (*with* Vrancken, Luc) Projectively flat affine surfaces with flat affine metric. (English summary) **2001m:53020**
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## 53B10 Projective connections

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## 53B15 Other connections

**Biswas, S. C.** *see* **De, U. C., 2001c:53018**
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— *see also* **Sengupta, Joydeep, 2001k:53023**
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**Tripathi, Mukut Mani** On a semi symmetric metric connection in a Kenmotsu manifold. (English summary) **2001f:53043**
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**Cho, Chung Hyun** Conformal change of the tensor $S^n_{mjk}$ in 7-dimensional $g$-UFT. (English summary) **2001m:53038**
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**Stanković, Miča S.** On a canonic almost geodesic mappings of the second type of affine spaces. (English summary) **2001i:53029**
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**Yoo, Ki-Jo** Conformal change in $ME$-manifolds. (English summary) **2001h:53026**

## 53B20 Local Riemannian geometry

**Agrawal, Ramesh Chandra** *see* **Upadhyay, M. D.**
**Barua, B.** A note on an infinitesimal motion in a semi-Ricci symmetric manifold. (English summary)
**Borisov, Yu. F.** A geometric proof of the Bianchi identity. (Russian. English summary) **2001m:53030**
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**Kutaliĕv, A. A.** Kaluza-Klein theory in an anisotropic space. (Russian. English summary) **2001b:83079**
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**Ferrarese, G.** (*with* Stazi, L.) Second-order properties of a generalized reference frame. (Italian. English summary) **2001a:53043**
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**Ovando Zúñiga, Gerardo** *see* **Gaftoi N., Violeta et al., 2001e:83027** *and* **2001h:53024**
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**Shima, Hirohiko** (*with* Hao, Jian Hua) Geometry associated with normal distributions. **2001d:62061**
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# 53Cxx Global differential geometry [see also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]

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## 53C05 Connections, general theory

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**Bokan, Neda** Torsion free connections, topology, geometry and differential operators on smooth manifolds. **2001h:53034**
**Cahen, Michel** Remarks on symplectic connections. (English summary) **2001g:53050**
— (*with* Gutt, Simone; Rawnsley, John) Symmetric symplectic spaces with Ricci-type curvature. (English summary) **2001m:53040**
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**Kurose, Takashi** Two characterizations of the standard affine connection on a sphere. (English summary) **2001j:53035**
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**Lipagina, L. V.** Invariant affine connections on the sphere $S^5$. (English and Russian summaries) **2001b:53021**
**Manoff, S.** Auto-parallel equation as Euler-Lagrange's equation over spaces with affine connections and metrics. (English summary) **2001i:53036**
**Mitric, Gabriel** Connections and regularity on the tangent bundle. **2001g:53052**
**Moya, Antonio M.** *see* **Fernández, Virginia V. et al., 2001i:53035**
**Nesterov, A. I.** Principal $Q$-bundles. **2001g:53053**
**Oniciuc, C.** Nonlinear connections on tangent bundle and harmonicity. (English summary) **2001e:53026**
**Opozda, Barbara** *see* **Kowalski, Oldřich et al., 2001f:53048**
**Papaghiuc, N.** Vector subbundles in the cotangent bundle of a differentiable manifold. **2001k:53035**
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**Smyth, Brian** (*with* Xavier, Frederico) Eigenvalue estimates and the index of Hessian fields. (English summary) **2001m:53042**
**Soare, Nicolae** A generalization of the connections of Schouten and Vranceanu on the $f(2v+3,\varepsilon)$-varieties. (English summary) **2001b:53022**
— On some affine connections on manifolds with almost contact 3-structure. (English summary) **2001i:53037**
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**Cahen, Michel** (*with* Gutt, Simone; Horowitz, Joel; Rawnsley, John) Homogeneous symplectic manifolds with Ricci-type curvature. (English summary) **2001m:53141**
**Canarutto, Daniel** Smooth bundles of generalized half-densities. (English summary) **2001b:58009**
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**Catuogno, Pedro** Stochastic parallel transport and connections of $H^2M$. (English summary) **2001e:58047**
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**Hiricǎ, Iulia Elena** Invariant operators on real and complex manifolds. (English summary) **2001g:53062**
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**Kubarski, Jan** Algebroid nature of the characteristic classes of flat bundles. (English summary) **2001a:53047**
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**Mangiarotti, Luigi** (*with* Sardanashvili, G. A.) On the geodesic form of second-order dynamic equations. (English summary) **2001c:70019**
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**Narmanov, A. Ya.** On the geometry of totally geodesic Riemannian foliations. (Russian. English and Uzbek summaries) **2001j:53040**
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**Necşuleu, Gheorghe** Infinitesimal transformation on the tangent bundle of a Riemannian manifold. (English summary) **2001g:53033**
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**Osborn, Howard** Affine connection complexes. (English summary) **2001c:58019**
**Pujar, S. S.** (*with* Waphare, B. B.) Isometry and conformality of Riemannian manifolds to spheres. X. (English summary) **2001h:53044**
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— (*with* De, U. C.) A Sasakian manifold admitting a contact metric semi-symmetric $\varphi$-connection. (English summary) **2001a:53069**
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**Rawnsley, John** *see* **Cahen, Michel et al., 2001m:53141**
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**Sharafutdinov, V. A.** On the inverse problem of determining a connection on a vector bundle. (English summary) **2001h:53037**
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**Slovák, Jan** *see* **Čap, Andreas et al., 2001h:53038**
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**Szilasi, József** (*with* Vincze, Csaba) A new look at Finsler connections and special Finsler manifolds. (English summary) **2001h:53104**
**Tezer, Cem** Sur les transformations conformes de la sphère admettant une connexion invariante. (French summary) [Conformal transformations of the sphere admitting an invariant connection] **2001k:53055**
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## 53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32Q20]

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**Etesi, Gábor** (*with* Hausel, Tamás) Geometric interpretation of Schwarzschild instantons. (English summary) **2001k:53037**
**Ford, Christopher** (*with* Pawlowski, Jan M.; Tok, Torsten; Wipf, Andreas) ADHM construction of instantons on the torus. (English summary) **2001m:53043**
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**Guo, Han Ying** (*with* Wu, Ke[1]; Zhang, Wei[6]) On torsion and Nieh-Yan form. (English summary) **2001e:53027**
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**Houghton, Conor J.** (*with* Manton, Nicholas S.; Romão, N. M.) On the constraints defining BPS monopoles. (English summary) **2001f:53052**
**Ioannidou, Theodora** SU($N$) skyrmions from instantons. (English summary) **2001g:53055**
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**Kanno, Hiroaki** A note on higher dimensional instantons and supersymmetric cycles. (English summary) **2001a:53044**
— (*with* Yasui, Yukinori) Octonionic Yang-Mills instanton on quaternionic line bundle of Spin(7) holonomy. (English summary) **2001d:53027**
**Kraan, Thomas C.** Instantons, monopoles and toric hyperKähler manifolds. (English summary) **2001g:53057**
**Landi, Giovanni** Deconstructing monopoles and instantons. (English summary) **2001m:53044**
**Li, Jia Yu[1]** (*with* Wang, You-De) Existence of Hermitian-Einstein metrics on stable Higgs bundles over open Kähler manifolds. (English summary) **2001a:53045**
**Manton, Nicholas S.** *see* **Houghton, Conor J. et al., 2001f:53052**
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**Murray, Michael K.** (*with* Singer, Michael A.[1]) On the complete integrability of the discrete Nahm equations. (English summary) **2001i:53038**
**Naber, Gregory L.** ★ Topology, geometry, and gauge fields. (English summary) **2001g:53058**
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## 53C10 $G$-structures

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**Dubrov, Boris** (*with* Komrakov, Boris P.; Morimoto, T.) Equivalence of holonomic differential equations. **2001i:53040**
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**Landsberg, J. M.** Introduction to $G$-structures via three examples. (English summary)
**Mağden, A.** (*with* Kadıoğlu, Ekrem; Salimov, A. A.) Applications of the Tachibana operator on problems of lifts. (English summary) **2001i:53041**
**Miyaoka, Reiko** Lie sphere geometry and Lie contact structures. (*see* **2001f:58004**)
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## 53C12 Foliations (differential geometric aspects) [see also 57R30, 57R32]

**Bolotov, D. V.** On hyperfoliations of spheres. (Russian. English, Russian and Ukrainian summaries) **2001m:53045**
**Brito, Fabiano Gustavo Braga** (*with* Naveira, Antonio Martínez) Total extrinsic curvature of certain distributions on closed spaces of constant curvature. (English summary) **2001j:53039**
**Codjia, Adolphe** Sur les sections généralisées d'actions localement libres de groupes de Lie compacts. (French summary) [On generalized sections of locally free actions of compact Lie groups] **2001k:53040**
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**Jung, Seoung Dal** Transversal infinitesimal automorphisms for non-harmonic Kähler foliation. (English summary) **2001d:53029**
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**Li, Ling-fei** On the indexes of harmonic foliations. (English and Chinese summaries) **2001m:53046**
**Lovrić, Miroslav** Compact orbits of smooth Killing vector fields on Riemannian manifolds. (English summary) **2001f:53058**
**Narmanov, A. Ya.** On the geometry of totally geodesic Riemannian foliations. (Russian. English and Uzbek summaries) **2001j:53040**
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**Pak, Hong Kyung** On properties of cohomologies adapted to Riemannian foliations. (*see* **2001c:53002**)
**Rovenskiĭ, Vladimir** Foliations, submanifolds, and mixed curvature. **2001f:53059**
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**Salimov, A. A.** (*with* Kadıoğlu, Ekrem) Lifts of derivations to the semitangent bundle. (English summary) **2001j:58005**
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**Smyth, Brian** (*with* Xavier, Frederico) Real solvability of the equation $\partial^2_{\bar z}\omega = \rho g$ and the topology of isolated umbilics. (English summary) **2001c:53045**
**Stepanov, S. E.** The vector space of conformal Killing forms on a Riemannian manifold. (Russian. English and Russian summaries) **2001g:53067**
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## 53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)

**Al-Aqeel, Adnan S. H.** Almost Hermitian 3-symmetric space. (English summary)
**Ali Shaikh, Absos** *see* **De, U. C. et al., 2001i:53042**
**Al' Otman, Akhmad** Bochner tensor of $VG$-manifold. (English summary) **2001e:53029**
**Aminova, A. V.** (*with* Zuev, S. V.; Kalinin, D. A.) Algebraic conditions for compatibility of two metrics with a common almost complex (quaternion) structure on a manifold. (Russian) **2001k:53042**
**Apostolov, Vestislav** (*with* Drăghici, Tedi) Almost Kähler 4-manifolds with $J$-invariant Ricci tensor and special Weyl tensor. (English summary) **2001h:53039**
**Banarou, M.** A note on six-dimensional Vaisman-Gray submanifolds of the octave algebra. (English and Russian summaries) (*see* **2001m:53005**)
**Blănuţă, Victor** (*with* Gîrţu, Manuela) Metric almost $2-\pi$ structures on the cotangent bundle. (French summary)
**Catalano, Domenico** (*with* Defever, Filip; Deszcz, Ryszard; Hotloś, Marian; Olszak, Zbigniew) A note on almost Kähler manifolds. (English summary) **2001d:53031**
**Das, Lovejoy S.** On a differentiable manifold with $F$-structure of rank $r$. (English summary) **2001j:53041**
**De, U. C.** (*with* Tran Quoc Binh[2]; Ali Shaikh, Absos) On weakly symmetric and weakly Ricci-symmetric $K$-contact manifolds. (English summary) **2001i:53042**
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**Deszcz, Ryszard** *see* **Catalano, Domenico et al., 2001d:53031**
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**Etayo Gordejuela, Fernando** (*with* Santamaría Sánchez, Rafael) $(J^2=\pm 1)$-metric manifolds. (English summary) **2001m:53050**
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**Hiricã, Iulia Elena** Invariant operators on real and complex manifolds. (English summary) **2001g:53062**
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**Ignatochkina, L. A.** (*with* Kirichenko, V. F.) Conformally invariant properties of approximately Kählerian manifolds. (Russian. Russian summary) **2001a:53050**
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**Kalinin, D. A.** *see* **Aminova, A. V. et al., 2001k:53042**
**Kim, Un Kyu** On low-dimensional almost Hermitian $C$-manifolds. (English summary) **2001a:53051**
**Kirichenko, V. F.** *see* **Ignatochkina, L. A., 2001a:53050**
**Lempert, László** (*with* Szőke, Róbert) The tangent bundle of an almost complex manifold. (English summary) **2001k:53044**
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**Makeev, Valeriĭ Ivanovich** Some classes of relative almost Hermitian manifolds. (Russian) **2001a:53052**
**Olszak, Zbigniew** On the curvature of left invariant locally conformally para-Kählerian metrics. **2001h:53040**
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**Prasad, Bhagwat** Affine connection in almost Lorentzian para contact manifold. (English summary) **2001e:53030**
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**Pujar, S. S.** On a structure defined by a tensor field of type $(1,1)$ satisfying $P^3-P=0$. (English summary) **2001k:53047**
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**Sato, Takuji** Some remarks on almost Kähler 4-manifolds of pointwise constant holomorphic sectional curvature. **2001c:53037**
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**Tsemo, Aristide** Dynamique des variétés affines. (English summary) [Dynamics of affine manifolds] **2001m:53051**
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**Banyaga, Augustin** On essential conformal groups and a conformal invariant. (English summary) **2001i:53131**

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**Choe, Yeong-Wu** (*with* Lee, Hyunjin) Characterization of CR submanifold in a complex projective space in terms of Ricci tensors. (English summary) **2001m:53092**
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**Gouli-Andreou, F.** On contact metric 3-manifolds with $R(X,\xi)\xi = 0$. (English summary) **2001k:53148**
**Gover, A. Rod** Aspects of parabolic invariant theory. (English summary) **2001a:58047**
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**Viaclovsky, Jeff A.** *see* **Uhlenbeck, Karen K., 2001j:35059**
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**Walschap, Gerard** *see* **De Sapio, Rodolfo, 2001j:57038**
**Wang, Guofang** (*with* Zhu, Xiaohua) Extremal Hermitian metrics on Riemann surfaces with singularities. **2001i:58017**
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**Yamaguchi, Takao** Collapsing Riemannian 4-manifolds. (Japanese) **2001e:53043**
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**Yang, Ming** A formula for the Euler characteristic of two-dimensional compact Riemannian manifolds of nonpositive curvature. (Chinese. English and Chinese summaries) **2001e:53035**
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**Ziller, Wolfgang** *see* **Grove, Karsten, 2001i:53047**

## 53C22 Geodesics [see also 58E10]

**Adachi, Toshiaki** Length spectrum of circles and Kähler magnetic fields on complex space forms. (English summary) **2001d:53042**
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**Balan, Vladimir** (*with* Stavrinos, Panayiotis C.) The study of geodesics and of their deviations in higher-order geometries. (English summary) **2001a:53062**
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**Candela, Anna Maria** (*with* Sánchez, Miguel) Geodesic connectedness in Gödel type space-times. (English summary) **2001a:53063**
**Germanov, O. S.** Pseudo-Liouville surfaces. (Russian) **2001d:53043**
**Hebda, James J.** Projective maps of rank $\geq 2$ are strongly projective. (English summary) **2001j:53049**
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**Jerie, M.** (*with* Prince, Geoff E.) A general Raychaudhuri's equation for second-order differential equations. (English summary) **2001c:53046**
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**Kocayusufoğlu, İsmail** (*with* Özdamar, Ertuğrul) Connections and minimizing geodesics of taxicab geometry. (English summary)
**Kowalski, Oldřich** (*with* Nikčević, Stana; Vlášek, Zdeněk) Homogeneous geodesics in homogeneous Riemannian manifolds—examples. (English summary) **2001j:53050**
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**Lee, Sang Youl** (*with* Lim, Yongdo; Park, Chan-Young) Symmetric geodesics on conformal compactifications of Euclidean Jordan algebras. (English summary) **2001a:53064**
**Lim, Yongdo** *see* **Lee, Sang Youl et al., 2001a:53064**
**Loi, Andrea** (*with* Sitzia, Paola) Explicit formulas for the geodesics of homogeneous SO(2)-isotropic three-dimensional manifolds. **2001k:53069**
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**Nencka, Hanna** *see* **Burdet, G., 2001e:53041**
**Nikčević, Stana** *see* **Kowalski, Oldřich et al., 2001j:53050**
**Özdamar, Ertuğrul** *see* **Kocayusufoğlu, İsmail**
**Park, Chan-Young** *see* **Lee, Sang Youl et al., 2001a:53064**
**Prince, Geoff E.** *see* **Jerie, M., 2001c:53046**
**Pušič, Nevena** On geodesic lines of metric semi-symmetric connection on Riemannian and hyperbolic Kachlerian spaces. (English summary) **2001f:53075**
**Reznikov, Alexander** Knotted totally geodesic submanifolds in positively curved spheres. (English, Russian and Ukrainian summaries) **2001k:53070**
**Rotman, Regina** Upper bounds on the length of the shortest closed geodesic on simply connected manifolds. (English summary) **2001h:53055**
**Sánchez, Miguel** *see* **Candela, Anna Maria, 2001a:53063**
**Schroeder, Viktor** Bounded geodesics in manifolds of negative curvature. (English summary) **2001m:53065**
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**Stavrinos, Panayiotis C.** *see* **Balan, Vladimir, 2001a:53062**
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**Vlášek, Zdeněk** *see* **Kowalski, Oldřich et al., 2001j:53050**
**Voss, Konrad** Geodesic mappings of the ellipsoid. (English summary) **2001m:53067**
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**Arvanitoyeorgos, Andreas** (*with* Beneki, Christina) Jacobi vector fields and geodesic tubes in certain Kähler manifolds. (English summary) **2001f:53148**
**Beneki, Christina** *see* **Arvanitoyeorgos, Andreas, 2001f:53148**
**Berceanu, Ştefan** Coherent states and geometry. (English summary) **2001f:81072**
**Bergeron, Nicolas** Premier nombre de Betti et spectre du laplacien de certaines variétés hyperboliques. (English summary) [First Betti number and spectrum of the Laplacian of certain hyperbolic manifolds] **2001f:58068**

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**Buser, P.** Inverse spectral geometry on Riemann surfaces. **2001e:58043**
**Candela, Anna Maria** (*with* Masiello, Antonio; Salvatore, A.) Existence and multiplicity of normal geodesics in Lorentzian manifolds. (English summary) **2001m:58031**
**Charitos, Charalambos** (*with* Tsapogas, Georgios) Approximation of recurrence in negatively curved metric spaces. (English summary) **2001i:37051**
**Chauvineau, B.** A generalization of the geodesic notion. (English summary) **2001f:83022**
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**Delanoë, Ph.** Invariant Fermat metrics. (English summary) **2001m:53053**
**Fanaï, H.-R.** Conjugaison géodésique des nilvariétés de rang deux. (English summary) [Geodesic conjugation of two-step nilmanifolds] **2001i:53142**
**Flores, José Luis** (*with* Sánchez, Miguel) Geodesic connectedness and conjugate points in GRW space-times. (English summary) **2001g:58024**
**García-Río, Eduardo** (*with* Vanhecke, Lieven) Geodesic transformations and harmonic spaces. (English summary) **2001i:53063**
**Giachetta, Giovanni** (*with* Mangiarotti, Luigi; Sardanashvili, G. A.) Nonrelativistic equations of motion as geodesic equations. (English and Russian summaries) **2001k:83014**
**Giannoni, Fabio** (*with* Piccione, Paolo; Sampalmieri, Rosella) On the geodesical connectedness for a class of semi-Riemannian manifolds. (English summary) **2001k:58021**
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**Glushakov, A. N.** (*with* Kozlov, S. E.) Geodesics on faces of calibrations of degree two. (Russian. English and Russian summaries) **2001b:53062**
**Goldberg, Vladislav V.** *see* **Akivis, Maks Aizikovich, 2001c:53027**
**Gornet, Ruth** (*with* Mast, Maura B.) The length spectrum of Riemannian two-step nilmanifolds. (English and French summaries) **2001d:58042**
**Ikawa, Osamu** (*with* Tasaki, Hiroyuki) Totally geodesic submanifolds of maximal rank in symmetric spaces. **2001f:53129**
**Inoguchi, Jun-Ichi** (*with* Kumamoto, Takatoshi; Ohsugi, Nozomu; Suyama, Yoshihiko) Differential geometry of curves and surfaces in 3-dimensional homogeneous spaces. III. (English summary) **2001m:53085a**
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**Itoh, Jin-ichi** (*with* Tanaka, Minoru[3]) The Lipschitz continuity of the distance function to the cut locus. (English summary) **2001b:53029**
**Itokawa, Yoe** (*with* Shiohama, Katsuhiro) The unboundedness of certain minimal submanifolds of positively curved Riemannian spaces. (English summary) **2001g:53115**
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**Khovanskiĭ, Askol'd G.** Families of quadric sections, and classical geometries. (Russian) **2001k:53002**
**Klapka, Lubomir** The functional definition of generalized geodesics. (English summary) **2001e:39011**
**Kohlmann, Peter** Uniqueness of horospheres and geodesic cylinders in hyperbolic space. (English summary) **2001a:53056**
**Kowalski, Oldřich** (*with* Szenthe, János) On the existence of homogeneous geodesics in homogeneous Riemannian manifolds. (English summary) **2001f:53104**
**Kozlov, S. E.** *see* **Glushakov, A. N., 2001b:53062**
**Kumamoto, Takatoshi** *see* **Inoguchi, Jun-Ichi et al., 2001m:53085a** *and* **2001m:53085b**
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**Mangiarotti, Luigi** (*with* Sardanashvili, G. A.) On the geodesic form of second-order dynamic equations. (English summary) **2001c:70019**
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**Masiello, Antonio** *see* **Candela, Anna Maria et al., 2001m:58031**
**Mast, Maura B.** *see* **Gornet, Ruth, 2001d:58042**
**Matveev, Vladimir S.** (*with* Topalov, Petar) Dynamical and topological methods in theory of geodesically equivalent metrics. (English and Russian summaries) **2001e:53088**
**Nagano, Koichi** Asymptotic rigidity of Hadamard 2-spaces. (English summary) **2001f:53081**
**Ohsugi, Nozomu** *see* **Inoguchi, Jun-Ichi et al., 2001m:53085a** *and* **2001m:53085b**
**Pak, Hong Kyung** Canonical flows of Einstein-Weyl manifolds. (English summary) **2001f:53091**
**Park, Keun** *see* **Jang, Changrim, 2001c:53067**
**Piccione, Paolo** *see* **Giannoni, Fabio et al., 2001k:58021**
**Pressley, Andrew** ★ Elementary differential geometry. (English summary) **2001j:53001**
**Ranjan, Akhil** (*with* Santhanam, Gopalakrishnan) Correction to: "The first eigenvalue of $P$-manifolds" [Osaka J. Math. **34** (1997), no. 4, 821–842; MR 2000d:58050]. **2001b:58049**
**Salvai, Marcos** Density of periodic geodesics in the unit tangent bundle of a compact hyperbolic surface. (English summary) **2001g:53148**
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**Salvatore, A.** *see* **Candela, Anna Maria et al., 2001m:58031**
**Sampalmieri, Rosella** *see* **Giannoni, Fabio et al., 2001k:58021**
**Sánchez, Miguel** *see* **Flores, José Luis, 2001g:58024**
**Santhanam, Gopalakrishnan** *see* **Ranjan, Akhil, 2001b:58049**
**Sardanashvili, G. A.** *see* **Mangiarotti, Luigi, 2001c:70019** *and* **Giachetta, Giovanni et al., 2001k:83014**
**Shiohama, Katsuhiro** *see* **Itokawa, Yoe, 2001g:53115**
**Stepanov, S. E.** On the geometry of projective submersions of Riemannian manifolds. (Russian) **2001a:53049**
**Suyama, Yoshihiko** *see* **Inoguchi, Jun-Ichi et al., 2001m:53085a** *and* **2001m:53085b**
**Szenthe, János** *see* **Kowalski, Oldřich, 2001f:53104**
**Tanaka, Minoru[3]** *see* **Itoh, Jin-ichi, 2001b:53029**
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**Ten, V. V.** Multi-valued integrals of geodesic flows. **2001k:53166**
**Topalov, Petar** *see* **Matveev, Vladimir S., 2001e:53088**
**Tsapogas, Georgios** *see* **Charitos, Charalambos, 2001i:37051**
**Udagawa, Seiichi** *see* **Adachi, Toshiaki et al., 2001g:53098**
**Udrişte, Aneta** (*with* Udrişte, Constantin) Dynamics induced by a magnetic field. (English summary) **2001a:78017**
**Udrişte, Constantin** *see* **Udriste, Aneta, 2001a:78017**
**Ukai, Tetsuo** The growth rate of a Jacobi vector field on a Hadamard manifold whose geodesic flow is of Anosov type. **2001g:37042**
**Ünal, Bülent** Multiply warped products. (English summary) **2001c:53101**
**Ungar, Abraham A.** *see* **Birman, Graciela S., 2001i:51023**
**Vanhecke, Lieven** *see* **García-Río, Eduardo, 2001i:53063**
**Wei, Shihshu Walter** The balance between existence and nonexistence theorems in differential geometry. (English summary) **2001m:53058**
**Wu, Fa En** Two complete formulas in a two-dimensional Riemannian manifold. (Chinese. Chinese summary) **2001b:53015**
**Yang, Ming** A formula for the Euler characteristic of two-dimensional compact Riemannian manifolds of nonpositive curvature. (Chinese. English and Chinese summaries) **2001e:53035**
**Yaskin, V. S.** Completely geodesic submanifolds on hypersurfaces of revolution in Euclidean space. (Russian. English, Russian and Ukrainian summaries) **2001c:53079**

## 53C23 Global topological methods (à la Gromov)

**Babenko, I. K.** Strong intersystolic softness of closed manifolds. (Russian) **2001k:53071**
**Berestovskiĭ, V. N.** (*with* Plaut, Conrad) Homogeneous spaces of curvature bounded below. (English summary) **2001f:53077**
**Bonk, Mario** (*with* Schramm, Oded) Embeddings of Gromov hyperbolic spaces. (English summary) **2001g:53077**
**Cao, Jianguo** Cheeger isoperimetric constants of Gromov-hyperbolic spaces with quasi-poles. (English summary) **2001m:53068**
**Davis, Michael Walter** (*with* Januszkiewicz, Tadeusz; Scott, Richard A.) Nonpositive curvature of blow-ups. **2001f:53078**
**Dontsov, V. V.** The systoles of uniform lattices on the Heisenberg group with Carnot-Carathéodory metrics. (Russian. English and Russian summaries) **2001k:53072**
— Systoles of nilmanifolds with Carnot-Carathéodory metrics. (Russian. English and Russian summaries) **2001m:53069**
**Fang, Fuquan** (*with* Rong, Xiaochun) Fixed point free circle actions and finiteness theorems. (English summary) **2001d:53044**
**Freedman, Michael Hartley** $Z_2$-systolic-freedom. (English summary) **2001a:53065**
**Fu, Joseph H. G.** Stably embedded surfaces of bounded integral curvature. (English summary) **2001h:53056**
**Funar, Louis** (*with* Grimaldi, Renata) On the spectrum obtained from packing balls on Riemann manifolds. (English summary) **2001k:53073**
**Grimaldi, Renata** *see* **Funar, Louis, 2001k:53073**
**Grognet, Stéphane** Théorème de Motzkin en courbure négative. (English and French summaries) [The Motzkin theorem in negative curvature] **2001a:53066**
**Halbeisen, Stephanie** On tangent cones of Alexandrov spaces with curvature bounded below. (English summary) **2001g:53078**
**Januszkiewicz, Tadeusz** *see* **Davis, Michael Walter et al., 2001f:53078**
**Kim, Inkang** Geometrical finiteness of symmetric spaces of noncompact type. (English summary) **2001b:53041**
**Koh, Liang-Khoon** Almost Riemannian spaces with small excess. (English summary) **2001c:53049**
**Leuzinger, E.** Corank and asymptotic filling-invariants for symmetric spaces. (English summary) **2001k:53074**
**Menguy, X.** Examples of nonpolar limit spaces. (English summary) **2001i:53058**
**Plaut, Conrad** Geometries on groups. (English summary) **2001d:53045**
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**Rong, Xiaochun** Collapsed manifolds with pinched positive sectional curvature. (English summary) **2001c:53050**
— *see also* **Fang, Fuquan, 2001d:53044**
**Ruan, Wei-Dong** On the convergence and collapsing of Kähler metrics. (English summary) **2001e:53042**
**Schramm, Oded** *see* **Bonk, Mario, 2001g:53077**
**Scott, Richard A.** *see* **Davis, Michael Walter et al., 2001f:53078**
**Seriu, Masafumi** Space of spaces as a metric space. (English summary) **2001f:53079**
**Shiohama, Katsuhiro** Sphere theorems. **2001c:53051**
**Shioya, Takashi** Convergence of Alexandrov spaces and spectrum of Laplacian. (English summary) **2001k:53075**
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**Berger, Marcel** Rencontres avec un géomètre. [Meetings with a geometer] **2001d:53002a**
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— Encounter with a geometer. I. (English summary) **2001d:53002c**
— Encounter with a geometer. II. (English summary) **2001d:53002d**
**Bergeron, Nicolas** Premier nombre de Betti et spectre du laplacien de certaines variétés hyperboliques. (English summary) [First Betti number and spectrum of the Laplacian of certain hyperbolic manifolds] **2001f:58068**
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**Courtois, Gilles** Des questions de stabilité. [Some stability questions] **2001b:53028**
**Croke, Christopher B.** (*with* Kleiner, Bruce) Spaces with nonpositive curvature and their ideal boundaries. (English summary) **2001b:53035**
**Davis, Michael Walter** (*with* Moussong, G.) Notes on nonpositively curved polyhedra. **2001b:57040**
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**Farrell, F. T.** (*with* Jones, Lowell Edwin) Collapsing foliated Riemannian manifolds. **2001f:53080**
**Gromov, Mikhael L.** Topological invariants of dynamical systems and spaces of holomorphic maps. I. (English summary) **2001j:37037**
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**Hoster, M.** (*with* Kotschick, D.) On the simplicial volumes of fiber bundles. (English summary) **2001g:55012**
**Jones, Lowell Edwin** *see* **Farrell, F. T., 2001f:53080**
**Kleiner, Bruce** *see* **Croke, Christopher B., 2001b:53035**
**Kotschick, D.** *see* **Hoster, M., 2001g:55012**
**Lott, John** $\hat{A}$-genus and collapsing. (English summary) **2001m:53082**
**Menguy, X.** Noncollapsing examples with positive Ricci curvature and infinite topological type. **2001g:53074**
**Moussong, G.** *see* **Davis, Michael Walter, 2001b:57040**
**Paeng, Seong-Hun** Conjugate radius and rigidity of manifold. (English summary) **2001b:53043**
— Rigidities of asymptotically Euclidean manifolds. (English summary) **2001b:53044**
**Parreau, Anne** Immeubles affines: construction par les normes et étude des isométries. (English summary) [Affine buildings: construction using norms and study of the isometries] **2001m:20042**
**Parry, Gareth P.** (*with* Šilhavý, Miroslav) Elastic scalar invariants in the theory of defective crystals. (English summary) **2001k:74021**
**Paternain, Gabriel P.** (*with* Petean, Jimmy) Einstein manifolds of non-negative sectional curvature and entropy. (English summary) **2001i:53067**
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**Šilhavý, Miroslav** *see* **Parry, Gareth P., 2001k:74021**
**Sormani, Christina** The almost rigidity of manifolds with lower bounds on Ricci curvature and minimal volume growth. **2001f:53082**
— Harmonic functions on manifolds with nonnegative Ricci curvature and linear volume growth. (English summary) **2001e:53034**
**Sprouse, Chadwick** Integral curvature bounds and bounded diameter. (English summary) **2001h:53053**
**Stallman, Cornelius** *see* **Berestovskiĭ, V. N. et al.**
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**Whyte, Kevin** Amenability, bi-Lipschitz equivalence, and the von Neumann conjecture. **2001a:20064**

## 53C24 Rigidity results

**Apanasov, B. N.** The action of non-super-rigid lattices in symmetric spaces of rank 1. (Russian) **2001k:53076**
**Ballmann, Werner** (*with* Brin, Michael) Rank rigidity of Euclidean polyhedra. (English summary) **2001k:53077**
**Brin, Michael** *see* **Ballmann, Werner, 2001k:53077**
**Cai, Mingliang** (*with* Galloway, Gregory J.) Rigidity of area minimizing tori in 3-manifolds of nonnegative scalar curvature. **2001j:53051**
**Cho, Chung-Ki** (*with* Han, Chong-Kyu) Local rigidity of hypersurfaces in real Euclidean spaces. (English summary) **2001g:53079**
**Farrell, F. T.** (*with* Jones, Lowell Edwin) Collapsing foliated Riemannian manifolds. **2001f:53080**
**Feres, Renato** (*with* Lampe, P.) Cartan geometries and dynamics. (English summary) **2001i:53059**
**Galloway, Gregory J.** *see* **Cai, Mingliang, 2001j:53051**
**Goldschmidt, Hubert** Infinitesimal spectral rigidity of symmetric spaces. (*see* **2001f:58004**)
**Han, Chong-Kyu** *see* **Cho, Chung-Ki, 2001g:53079**
**Jones, Lowell Edwin** *see* **Farrell, F. T., 2001f:53080**
**Kamishima, Yoshinobu** Geometric superrigidity of spherical pseudo-quaternionic manifolds. **2001b:53042**
**Kim, Chang-Wan** (*with* Yim, Jin-Whan) Rigidity of noncompact Finsler manifolds. (English summary) **2001e:53044**
**Kim, Inkang** Rigidity of symmetric spaces. (English summary) **2001e:53045**
**Kramer, Wolfram** The scalar curvature on totally geodesic fiberings. (English summary) **2001m:53070**
**Lampe, P.** *see* **Feres, Renato, 2001i:53059**
**Li, Haizhong** Rigidity theorems of hypersurfaces in a sphere. (English summary) **2001d:53046**
**Nagano, Koichi** Asymptotic rigidity of Hadamard 2-spaces. (English summary) **2001f:53081**
**Paeng, Seong-Hun** Conjugate radius and rigidity of manifold. (English summary) **2001b:53043**
— Rigidities of asymptotically Euclidean manifolds. (English summary) **2001b:53044**
**Simon, Udo** (*with* Vrancken, Luc; Wang, Chang Ping[1]; Wiehe, Martin) Intrinsic and extrinsic geometry of ovaloids and rigidity. (English summary) **2001j:53052**
**Sormani, Christina** The almost rigidity of manifolds with lower bounds on Ricci curvature and minimal volume growth. **2001f:53082**
**Souam, Rabah** Bending invariants for hypersurfaces. **2001d:53047**
**Taniguchi, Yoshiharu** On congruent hypersurfaces of Hermitian symmetric spaces. **2001f:53083**
**Toledo, Domingo** Rigidity theorems in Kähler geometry and fundamental groups of varieties. (English summary) **2001g:53080**
**Verovic, Patrick** Un résultat de rigidité pour les métriques de Hilbert. [A rigidity result for Hilbert metrics] (*see* **2001i:53004**)
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## 53C35 Symmetric spaces [see also 32M15, 57T15]

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## 53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)

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## 53C50 Lorentz manifolds, manifolds with indefinite metrics

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— (*with* Goldberg, Vladislav V.) On some methods of construction of invariant normalizations of lightlike hypersurfaces. (English summary) **2001f:53144**
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## 53C56 Other complex differential geometry [see also 32Cxx]

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## 53C60 Finsler spaces and generalizations (areal metrics) [see also 58B20]

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## 53C65 Integral geometry [see also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]

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## 53D15 Almost contact and almost symplectic manifolds

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## 53D35 Global theory of symplectic and contact manifolds [see also 57Rxx]

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## 53D50 Geometric quantization

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**Schlichenmaier, Martin** Deformation quantization of compact Kähler manifolds by Berezin-Toeplitz quantization. (English summary) **2001k:53177**
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**Astashkevich, Alexander** On Karabegov's quantizations of semisimple coadjoint orbits. **2001c:53119**
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**Boutet de Monvel, L.** Star-produits holomorphes. (French summary) [Holomorphic star-products] **2001j:53118**
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**Manchon, Dominique** Poisson bracket, deformed bracket and gauge group actions in Kontsevich deformation quantization. (English summary) **2001j:53120**
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**Asakawa, Tsuguhiko** (*with* Kishimoto, Isao) Noncommutative gauge theories from deformation quantization. (English summary) **2001m:81290**
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**Flato, Moshé** Two disjoint aspects of the deformation programme: quantizing Nambu mechanics; singleton physics. (English summary) (*see* **2001a:81006**)
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**Mangiarotti, Luigi** (*with* Sardanashvili, G. A.) ★ Connections in classical and quantum field theory. **2001h:53033**
**Mansour, M.** Star products and quantum algebras. (English summary) **2001c:81079**
**Natsume, Toshikazu** (*with* Nest, Ryszard) Topological approach to quantum surfaces. (English summary) **2001f:58017**
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**Verçin, A.** Operator formulation of classical mechanics. (English summary) **2001k:81135**
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## 53Z05 Applications to physics

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## 54–01 Instructional exposition (textbooks, tutorial papers, etc.)

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**Lee, John M.** ★ Introduction to topological manifolds. (English summary) **2001d:57001**
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**Yagasaki, Tatsuhiko** A short survey on coarse topology. (*see* **2001a:54001**)

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**Brouwer, L. E. J.** L. E. J. Brouwer: the foundations of topology and the topology of the foundations. (*see* **2001m:01001**)
**(van Dalen, Dirk)** *see* **Brouwer, L. E. J., (2001m:01001)**
**Park, Sehie** Ninety years of the Brouwer fixed point theorem. (English summary) **2001k:55001**
**Pełczar, Andrzej** Tadeusz Ważewski—scientist and teacher. (Polish) **2001a:01058**
**Ren, Jin Shen** *see* **Zhu, Lin Hu et al.**
**(Ważewski, Tadeusz)** *see* **Pełczar, Andrzej, 2001a:01058**
**Yang, Ya Li** *see* **Zhu, Lin Hu et al.**
**Zhu, Lin Hu** (*with* Ren, Jin Shen; Yang, Ya Li) Probabilistic metric space theory in China in the last twenty years. (Chinese. English and Chinese summaries)

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**(Arkhangel'skiĭ, A. V.)** *see* **15th Anniversary of the Chair of General Topology and Geometry at Moscow State University**
**(Bonatti, Christian)** *see* **Proceedings: Conference "Hyperspace Topologies and Applications", 2001c:54001**
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  **Banaschewski, Bernhard** ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
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# 54Axx Generalities

## 54A05 Topological spaces and generalizations (closure spaces, etc.)

**Balachandran, Krishnan** *see* **Maki, H. et al., 2001e:54002**
**Carpintero, Carlos** (*with* Rosas, Ennis; Vielma, Jorge) Operators associated to a topology $\Gamma$ over a set $X$ and related notions. (Spanish. English and Spanish summaries) (*see* **2001b:00019**)
**Charalambous, M. G.** Strong nearness frames having enough Cauchy filters. (English summary) **2001i:54005**
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**Herrlich, Horst** (*with* Pultr, A.) Nearness, subfitness and sequential regularity. (English summary) **2001f:54002**
**Jafari, Saeid** (*with* Noiri, Takashi) On strongly semi-regular spaces. (English summary)
**Kent, Darrell C.** (*with* Wig, Jennifer) $p$-regular Cauchy completions. (English summary) **2001g:54004**
**Mahmoud, R. A.** Between SMPC-functions and submaximal spaces. (English summary)
**Maki, H.** (*with* Ogata, Hayao; Balachandran, Krishnan; Sundaram, Palaniappan; Devi, Ramasamy) The digital line and operation approaches of $T_{1/2}$-spaces. (English summary) **2001e:54002**
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**Preuß, Gerhard** Completion of semiuniform convergence spaces. (English summary) **2001k:54002**
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**Sambin, Giovanni** Formal topology and domains. (English summary) **2001k:54003**
**Schroder, Mark** Marinescu modifiers, strong solidifiers, and countable depth: when do continuous convergence and locally uniform convergence coincide? (English summary) **2001g:54005**
**Su, Fa Hui** $q$-open sets and their properties. (Chinese. English and Chinese summaries)
**Sundaram, Palaniappan** *see* **Maki, H. et al., 2001e:54002**
**Toma, Vladimir** (*with* Zuzčák, I.) Bases and homeomorphisms in polytopological spaces. (English summary) **2001a:54003**
**Veera Kumar, M. K. R. S.** Between semi-closed sets and semi-pre-closed sets. (English summary) **2001m:54002**
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**Vielma, Jorge** *see* **Carpintero, Carlos et al., (2001b:00019)**
**Wig, Jennifer** *see* **Kent, Darrell C., 2001g:54004**
**Zuzčák, I.** *see* **Toma, Vladimir, 2001a:54003**

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**Baboolal, D.** Local connectedness made uniform. (English summary) **2001d:54020**
**Baran, Mehmet** Closure operators in convergence spaces. (English summary) **2001a:54014**
**Bella, Angelo** The density topology is extraresolvable. (English summary) **2001k:54007**
**Brendle, Jörg** (*with* Löwe, Benedikt) Solovay-type characterizations for forcing-algebras. (English summary) **2001h:03086**
**Comfort, W. W.** (*with* García-Ferreira, Salvador) Dense subsets of maximally almost periodic groups. (English summary) **2001e:22001**
**Coquand, Thierry** (*with* Sadocco, Sara; Sambin, Giovanni; Smith, Jan M.) Formal topologies on the set of first-order formulae. **2001j:03112**
**Das, Pratulananda** *see* **Lahiri, B. K., 2001c:54025**
**Farrag, A. S.** (*with* Sewisy, Adel A.) Computer construction and enumeration of all topologies and all hyperconnected topologies on finite sets. (English summary) **2001b:68096**
**García-Ferreira, Salvador** *see* **Comfort, W. W., 2001e:22001**
**Kreminski, Rick** Graphs and matrices in the study of finite (topological) spaces. **2001d:05046**
**Kruml, David** *see* **Paseka, Jan, 2001d:06022**
**Lahiri, B. K.** (*with* Das, Pratulananda) Density topology in a metric space. (English summary) **2001c:54025**
**Latif, Raja Mohammad** Semi-convergence of filters and nets. (English summary) **2001m:54010**
**Löwe, Benedikt** *see* **Brendle, Jörg, 2001h:03086**
**McMaster, T. Brian M.** (*with* Turner, Colin R.) Total negation under constraint: pre-anti properties. (Italian summary) **2001i:54007**
**Paseka, Jan** (*with* Kruml, David) Embeddings of quantales into simple quantales. (English summary) **2001d:06022**
**Pultr, A.** (*with* Sichler, J.) A Priestley view of spatialization of frames. (French summary) **2001i:06012**
**Sadocco, Sara** *see* **Coquand, Thierry et al., 2001j:03112**
**Sambin, Giovanni** *see* **Coquand, Thierry et al., 2001j:03112**
**Sewisy, Adel A.** *see* **Farrag, A. S., 2001b:68096**
**Sichler, J.** *see* **Pultr, A., 2001i:06012**
**Sioen, M.** On the epireflectivity of the Wallman-Shanin-type compactification for approach spaces. (English summary) **2001h:18005**
**Smith, Jan M.** *see* **Coquand, Thierry et al., 2001j:03112**
**Turner, Colin R.** *see* **McMaster, T. Brian M., 2001i:54007**
**Vorster, S. J. Roelof** Interior operators in general categories. (English summary) **2001k:18008**

## 54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

**Al-Nashef, Bassam** A study of spaces with a given semiregularization. (English summary) **2001i:54006**
**Arkhangel'skiĭ, A. V.** On condensations of $C_p$-spaces onto compacta. (English summary) **2001c:54002**
**Bonanzinga, M.** (*with* Cammaroto, Filippo[1]; Matveev, Mikhail Valer'evich) Partial discretization of topologies. (Italian summary) **2001j:54002**
**Cammaroto, Filippo[1]** *see* **Bonanzinga, M. et al., 2001j:54002**
**Carpintero, Carlos** (*with* Rosas, Ennis) Arbitrary intersection of a family of open subsets with the $\alpha$-s-locally finite property is $\alpha$-semi-open. (Spanish. English and Spanish summaries)
**Cristescu, Gabriela** Topologies compatible with the connectivity in networks. (English summary)
**Hamlett, T. R.** *see* **Janković, Dragan et al., 2001k:54004**
**Harding, John** (*with* Pogel, Alex) Every lattice with 1 and 0 is embeddable in the lattice of topologies of some set by an embedding which preserves the 1 and 0. (English summary) **2001a:54004**
**Henriksen, Melvin** (*with* Kopperman, Ralph; Rayburn, Marlon; Todd, Aaron R.) Oxtoby's pseudocompleteness revisited. (English summary) **2001a:54005**
**Janković, Dragan** (*with* Hamlett, T. R.; Konstadilaki-Savvopoulou, Ch.) Local-to-global topological properties. (English summary) **2001k:54004**
**Konstadilaki-Savvopoulou, Ch.** *see* **Janković, Dragan et al., 2001k:54004**
**Kopperman, Ralph** *see* **Henriksen, Melvin et al., 2001a:54005**
**Kou, Hui** (*with* Liu, Ying Ming) Continuity for domain projection spaces. (Chinese. Chinese summary)
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**Matveev, Mikhail Valer'evich** *see* **Bonanzinga, M. et al., 2001j:54002**
**Mondal, Tapas Kumar** *see* **Samanta, Syamal Kumar, (2001i:03008)**
**Pogel, Alex** *see* **Harding, John, 2001a:54004**
**Rayburn, Marlon** *see* **Henriksen, Melvin et al., 2001a:54005**
**Reinhold, Jürgen** Finite intervals in the lattice of topologies. (English summary) **2001e:54003**
**Rosas, Ennis** *see* **Carpintero, Carlos**
**Samanta, Syamal Kumar** (*with* Mondal, Tapas Kumar) Intuitionistic proximity. (English summary) (*see* **2001i:03008**)
**Todd, Aaron R.** *see* **Henriksen, Melvin et al., 2001a:54005**
**Wu, Hong Bo** Some compactness properties for Vietoris topological spaces. (Chinese. English and Chinese summaries)

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**Balachandran, Krishnan** *see* **Maki, H. et al., 2001e:54002**
**Bandyopadhyay, Chhanda** *see* **Garai, Biswanath**
**Belaid, Karim** (*with* Cherif, Bahri; Echi, Othman) Quasi-spectral binary relations and ordered disjoint unions. (English summary) **2001k:06011**
**Bella, Angelo** (*with* Malykhin, V. I.) On certain subsets of a group. **2001b:54001**
— The density topology is extraresolvable. (English summary) **2001k:54007**
**Chentsov, A. G.** Topological structures on the space of finitely additive measures and some their applications. (English summary) **2001c:49023**
**Cherif, Bahri** *see* **Belaid, Karim et al., 2001k:06011**
**Devi, Ramasamy** *see* **Maki, H. et al., 2001e:54002**
**Di Caprio, D.** (*with* Meccariello, Enrico) Notes on separation axioms in hyperspaces. (English summary) **2001a:54012**
**Di Maio, Giuseppe** (*with* Meccariello, Enrico) Wjisman topology. [Wijsman topology] (*see* **2001f:54021**)
— (*with* Holý, Dusan) Comparison among Wijsman topology and other hypertopologies. (English summary) **2001d:54005**
**Echi, Othman** *see* **Belaid, Karim et al., 2001k:06011**
**Ewert, Janina** Semilocal connectedness of product spaces and $s$-continuity of maps. (English summary) **2001j:54016**
**Feng, Li** Strongly exactly $n$-resolvable spaces of arbitrarily large dispersion character. (English summary) **2001e:54059**
**Garai, Biswanath** (*with* Bandyopadhyay, Chhanda) Nowhere dense sets and hyperconnected $s$-topological spaces. (English summary)
**Holý, Dusan** *see* **Di Maio, Giuseppe, 2001d:54005**
**Khalouani, Mohamed** (*with* Labhalla, Salah; Lombardi, Henri) Étude constructive de problèmes de topologie pour les réels irrationnels. (English summary) [Constructive study of topology problems for irrational real numbers] **2001b:03067**
**Kolář, Jan** Simultaneous extension operators for the density topology. (English summary) **2001b:54020**
**Labhalla, Salah** *see* **Khalouani, Mohamed et al., 2001b:03067**
**Liang, Ji Hua** On the Plotkin power-domain of an FS-domain. (Chinese. Chinese summary)
**Lombardi, Henri** *see* **Khalouani, Mohamed et al., 2001b:03067**
**Lowen, Robert** (*with* Sioen, M.) Weak representations of quantified hyperspace structures. (English summary) **2001e:54017**
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**Maki, H.** (*with* Ogata, Hayao; Balachandran, Krishnan; Sundaram, Palaniappan; Devi, Ramasamy) The digital line and operation approaches of $T_{1/2}$-spaces. (English summary) **2001e:54002**

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**Meccariello, Enrico** *see* **Di Caprio, D., 2001a:54012** *and* **Di Maio, Giuseppe, (2001f:54021)**
**Mezey, Paul G.** Topological methods for molecular shape analysis: continuum models and discretization. (English summary) **2001k:92076**
**Nasef, Arafa A.** *see* **Abd El-Monsef, M. E. et al., 2001a:54017**
**Ogata, Hayao** *see* **Maki, H. et al., 2001e:54002**
**Pultr, A.** (*with* Tozzi, A.) A note on reconstruction of spaces and maps from lattice data. (English summary) **2001m:54018**
**Ribarska, Nadezhda K.** On having a countable cover by sets of small local diameter. (English summary) **2001h:46018**
**Sioen, M.** *see* **Lowen, Robert, 2001e:54017**
**Sundaram, Palaniappan** *see* **Maki, H. et al., 2001e:54002**
**Terepeta, Malgorzata** (*with* Wagner-Bojakowska, Elżbieta) $\psi$-density topology. (English summary) **2001c:28004**
**Toma, Vladimír** (*with* Zuzčák, I.) Bases and homeomorphisms in polytopological spaces. (English summary) **2001a:54003**
**Tozzi, A.** *see* **Pultr, A., 2001m:54018**
**Wagner-Bojakowska, Elżbieta** *see* **Terepeta, Malgorzata, 2001c:28004**
**Zuzčák, I.** *see* **Toma, Vladimír, 2001a:54003**

## 54A15 Syntopogeneous structures

**Liu, Heng Xing** (*with* Luan, Jing Wen) A characterization of strongly topological function spaces and a sufficient condition for the product of two covariant topological spaces to be a covariant topological space. (Chinese. English and Chinese summaries)
**Luan, Jing Wen** *see* **Liu, Heng Xing**

## 54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

**Bella, Angelo** (*with* Yashchenko, Ivan V.) On AP and WAP spaces. (English summary) **2001a:54006**
**Cao, Shangmin** Regular closed Boolean algebra in the space with extension topology. (English summary)
**Dolecki, Szymon** (*with* Nogura, Tsugunori) Two-fold theorem on Fréchetness of products. (English summary) **2001h:54004**
— Flexible niveloids. (English summary) **2001k:54005**
— (*with* Mynard, Frédéric) Cascades and multifilters. (English summary) **2001e:54004**
— (*with* Mynard, Frédéric) Convergence-theoretic mechanisms behind product theorems. (English summary) **2001e:54005**
**He, Wei[1]** Convergence of filters without points. (Chinese. English and Chinese summaries)
**Höhle, Ulrich** Limit structures and many valued topologies. (English summary) **2001j:54003**
**Malykhin, V. I.** (*with* Tironi, Gino) Weakly Fréchet-Urysohn and Pytkeev spaces. (English summary) **2001e:54006**
**Mynard, Frédéric** Strongly sequential spaces. (English summary) **2001d:54001**
— *see also* **Dolecki, Szymon, 2001e:54004** *and* **2001e:54005**
**Nogura, Tsugunori** *see* **Dolecki, Szymon, 2001h:54004**
**Repický, Miroslav** Spaces not distinguishing convergences. (English summary) **2001k:54006**
**Shakhmatov, Dmitriĭ B.** Selected results on convergence properties in topological spaces, topological groups and function spaces. (*see* **2001d:03007**)
**Solecki, Sławomir** Filters and sequences. (English summary) **2001g:54006**
**Tironi, Gino** *see* **Malykhin, V. I., 2001e:54006**
**Yashchenko, Ivan V.** *see* **Bella, Angelo, 2001a:54006**

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**Bai, Shi Zhong** Pre-semiclosed sets and PS-convergence in $L$-fuzzy topological spaces. (English summary)
**Banaschewski, Bernhard** (*with* Hong, Sung Sa) Extension by continuity in pointfree topology. (English summary) **2001k:18004**
**Bouziad, Ahmed** Filters, consonance and hereditary Baireness. (English summary) **2001e:54016**
**Burgin, Mark** Theory of fuzzy limits. (English summary)
**Chicourrat, Monique** RE-proximities as fixed points of an operator on pseudo proximities. (English summary) **2001f:54029**
**Costantini, Camillo** (*with* Simon, Petr) An $\alpha_4$, not Fréchet product of $\alpha_4$ Fréchet spaces. (English summary) **2001f:54039**
**Cui, Cheng Ri** *see* **Wen, Song Long et al., 2001i:46022**
**Del Prete, I.** (*with* Di Iorio, M.; Holá, Ľubica) Graph convergence of set-valued maps and its relationship to other convergences. (English summary) **2001k:54030**
**Di Iorio, M.** *see* **Del Prete, I. et al., 2001k:54030**
**Dolecki, Szymon** (*with* El Ghali, Badia) Some old and new results on lower semicontinuity of minimal points. **2001b:49036**
**El Ghali, Badia** *see* **Dolecki, Szymon, 2001b:49036**
**Georgiou, D. N.** (*with* Papadopoulos, Basil K.) On fuzzy $\theta$-convergences. (English summary)
— (*with* Papadopoulos, Basil K.) Weakly continuous, weakly $\vartheta$-continuous, super-continuous and topologies on function spaces. (English summary)
**Holá, Ľubica** *see* **Del Prete, I. et al., 2001k:54030**
**Hong, Sung Sa** *see* **Banaschewski, Bernhard, 2001k:18004**
**Hong, Woo Chorl** On sequential spaces and a related class of spaces. (English summary) **2001g:54027**
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**Jin, Chang Lu** *see* **Wen, Song Long et al., 2001i:46022**
**Kogut, P. I.** On the topological convergence of epigraphs in partially ordered vector spaces. (Ukrainian. English and Russian summaries) **2001f:46009**
**Lee, Seok Jong** (*with* Min, Kyung Chan) An isomorphism for infinite-dimensional calculus. (English summary) **2001e:58007**
**Li, Fa Chao** *see* **Qiu, Ji Qing et al.**
**Li, Rong Lu** *see* **Wen, Song Long et al., 2001i:46022**
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**Min, Kyung Chan** *see* **Lee, Seok Jong, 2001e:58007**
**Monadi, Abolfazl** (*with* Tavallaee, Narguess) Analytic maps in convergence spaces. (English summary) **2001b:46073**
**Naimpally, Somashekhar Amrith** A new uniform convergence for partial functions. (English summary) (*see* **2001h:54003**)
**Nouh, Ali Ahmed** $\theta$-convergence of fuzzy filters. (English summary)
**Nuray, Fatih** (*with* Ruckle, William H.) Generalized statistical convergence and convergence free spaces. (English summary) **2001m:40002**
**Papadopoulos, Basil K.** *see* **Georgiou, D. N.**
**Porter, Kathryn F.** Regular-uniform convergence and the open-open topology. (English summary)
**Preuß, Gerhard** Completion of semiuniform convergence spaces. (English summary) **2001k:54002**
— Some algebraically topological aspects in the realm of convenient topology. (English summary) **2001j:54001**
**Pták, Vlastimil** Combinatorial methods in analysis. (English summary) **2001k:05006**
**Qiu, Ji Qing** (*with* Wu, Cong Xin; Li, Fa Chao) On the restudy of fuzzy complex analysis. I. The sequence and series of fuzzy complex numbers and their convergences. (English summary)
**Rath, Nandita** Completion of a Cauchy space without the $T_2$-restriction on the space. (English summary) **2001c:54024**
**Ray, G. G.** *see* **Sengupta, Ashok, 2001k:54026**
**Ruckle, William H.** *see* **Nuray, Fatih, 2001m:40002**
**Sanchis, Manuel** (*with* Tamariz Mascarúa, Ángel) $p$-pseudocompactness and related topics in topological spaces. (English summary) **2001b:54030**
**Sengupta, Ashok** (*with* Ray, G. G.) A multifunctional extension of function spaces: chaotic systems are maximally ill-posed. (English summary) **2001k:54026**
**Simon, Petr** *see* **Costantini, Camillo, 2001f:54039**
**Šlapal, Josef** Compactification of limit $\mathscr{S}$-net spaces. (English summary) **2001m:54022**
**So, Shing S.** (*with* Wicks, Ed.) A decomposition of convergence semigroups and its properties on compact convergence right groups. (English summary) **2001e:22002**
**Sünderhauf, Philipp** Sobriety in terms of nets. (English summary) **2001j:54017**
**Tamariz Mascarúa, Ángel** *see* **Sanchis, Manuel, 2001b:54030**
**Tavallaee, Narguess** *see* **Monadi, Abolfazl, 2001b:46073**
**Wang, Bao-Ling** *see* **Xin, Yu-mei**
**Wen, Song Long** (*with* Jin, Chang Lu; Cui, Cheng Ri; Li, Rong Lu) $s$-multiplier convergence and its invariance for admissible polar topology. (Chinese. English and Chinese summaries) **2001i:46022**
**Wicks, Ed.** *see* **So, Shing S., 2001e:22002**
**Wu, Cong Xin** *see* **Qiu, Ji Qing et al.**
**Xin, Yu-mei** (*with* Wang, Bao-Ling) $\sigma X$-series convergent and $\sigma S$-sequentially compact fuzzy sets. (English and Chinese summaries)
**Yalvaç, T. Hatice** A unified approach to compactness and filters. (English summary)
**Yang, Zhongqiang** Convergent sequences in spaces with finite compactness numbers. (English summary) **2001d:54021**
**Ziat, Hassan** On a characterization of Pettis integrable multifunctions. (English summary) **2001d:46063**

## 54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx] {For ultrafilters, see 54D80.}

**Bella, Angelo** (*with* Malykhin, V. I.) On certain subsets of a group. **2001b:54001**
— The density topology is extraresolvable. (English summary) **2001k:54007**
— (*with* Dow, Alan) On $R$-monolithic spaces. (English summary) **2001e:54007**
— (*with* Dow, Alan; Tironi, Gino) Pseudoradial spaces: separable subsets, products and maps onto Tychonoff cubes. (English summary) **2001j:54004**
**Dow, Alan** (*with* Monk, J. Donald) Erratum to: "Depth, $\pi$-character, and tightness in superatomic Boolean algebras" [Topology Appl. **75** (1997), no. 2, 183–199; MR 98a:54002]. **2001b:54002**
— *see also* **Bella, Angelo et al., 2001e:54007** *and* **2001j:54004**
**Hernández T., Nelson C.** Remarks about Toronto spaces. (Spanish. English and Spanish summaries) **2001b:54003**
**Hodel, R. E.** (*with* Vaughan, J. E.) Reflection theorems for cardinal functions. (English summary) **2001b:54004**
**Kortezov, Ivaylo S.** Fragmentability and cardinal invariants. (English summary) **2001b:54005**
**Künzi, Hans-Peter A.** (*with* Losonczi, Attila) On some cardinal functions related to quasi-uniformities. (English summary) **2001k:54008**
**Losonczi, Attila** *see* **Künzi, Hans-Peter A., 2001k:54008**
**Luukkainen, Jouni** The density topology is maximally resolvable. (English summary) **2001b:54006**
**Malykhin, V. I.** *see* **Bella, Angelo, 2001b:54001**
**McMaster, T. Brian M.** (*with* Turner, Colin R.) Total negation under constraint: pre-anti properties. (Italian summary) **2001i:54007**
— (*with* Turner, Colin R.) Functional equations in total negation. (English summary) **2001c:54003**
**Monk, J. Donald** *see* **Dow, Alan, 2001b:54002**
**Mrowka, S.** $\mathscr{R}$-compact spaces with weight $X < \mathrm{Exp}_{\mathscr{R}} X$. (English summary) **2001b:54007**
**Shapiro, Leonid B.** On Šapirovskiĭ's theorem. (English summary) **2001k:54009**
**Stepanova, E. N.** The Eberlein number and classical cardinal invariants. (Russian. English and Russian summaries) **2001a:54007**
**Tironi, Gino** *see* **Bella, Angelo et al., 2001j:54004**
**Turner, Colin R.** *see* **McMaster, T. Brian M., 2001c:54003** *and* **2001i:54007**

**Vaughan, J. E.** *see* **Hodel, R. E., 2001b:54004**
**Yusufov, V. Sh.** Cardinality homogeneous topological spaces with special properties. (English and Azerbaijani summaries)

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**Arkhangel'skiĭ, A. V.** (*with* Buzyakova, R. Z.) On some properties of linearly Lindelöf spaces. (English summary) **2001g:54025**
— On topological and algebraic structure of extremally disconnected semitopological groups. (English summary) **2001k:54063**
**Babinkostova, Liljana** *see* **Kočinac, Ljubiša D., 2001f:54019**
**Buzyakova, R. Z.** *see* **Arkhangel'skiĭ, A. V., 2001g:54025**
**Ciesielski, Krzysztof²** (*with* Rosen, Harvey) Two examples concerning extendable and almost continuous functions. (English summary) **2001h:26002**
**Comfort, W. W.** Fourteen questions from the period 1965–1995. (English summary) **2001c:01021**
**Džamonja, Mirna** On uniform Eberlein compacta and $c$-algebras. (English summary) **2001f:06024**
**Eisworth, Todd** On countably compact spaces satisfying $wD$ hereditarily. (English summary) **2001j:54021**
**Hanna, A. J.** (*with* McMaster, T. Brian M.) Splittability over linear orderings. (English summary) **2001k:54049**
**Itzkowitz, Gerald** On balanced topological groups. (English summary) **2001c:22002**
**Jordan, Francis** Covering Baire 1 functions with Darboux functions and the cofinality of the ideal of meager sets. (English summary) **2001h:26006**
— A new cardinal invariant related to adding real functions. (English summary) **2001g:26002**
**Kočinac, Ljubiša D.** (*with* Babinkostova, Liljana) Function spaces and some relative covering properties. (English summary) **2001f:54019**
**Lemin, A. Yu.** (*with* Lemin, Vladimir A.) On a universal ultrametric space. (English summary) **2001b:54035**
**Lemin, Vladimir A.** *see* **Lemin, A. Yu., 2001b:54035**
**Malykhin, V. I.** Irresolvable countable spaces of weight less than $\mathfrak{c}$. (English summary) **2001b:54008**
— $C_p(I)$ is not subsequential. (English summary) **2001a:54008**
**McMaster, T. Brian M.** *see* **Hanna, A. J., 2001k:54049**
**Pasynkov, Boris A.** On the geometry of continuous mappings of countable functional weight. (Russian. English and Russian summaries) **2001i:54039**
**Rosen, Harvey** *see* **Ciesielski, Krzysztof², 2001h:26002**
**Sanchis, Manuel** (*with* Tamariz Mascarúa, Ángel) $p$-pseudocompactness and related topics in topological spaces. (English summary) **2001b:54030**
**Shelah, Saharon** Cellularity of free products of Boolean algebras (or topologies). (English summary) **2001m:03130**
**Sondore, A.** On $\kappa B$-compact spaces. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
**Song, Chun Ling** *see* **Xie, Lin¹**
**Tamariz Mascarúa, Ángel** $\alpha$-pseudocompactness in $C_p$-spaces. (English summary) **2001j:54025**
— *see also* **Sanchis, Manuel, 2001b:54030**
**Tanaka, Yoshio¹** Products of $k$-spaces, and $k$-networks. **2001a:54036**
**Todorčević, Stevo** Chain-condition methods in topology. (English summary) **2001a:54055**
**Tyugashov, G. S.** $k$-expansion of topological spaces, and convexity. (Russian) **2001b:54040**
**Xie, Lin¹** (*with* Song, Chun Ling) The connectedness of locally finite topology. (Chinese. English and Chinese summaries)
**Yang, Zhongqiang** Convergent sequences in spaces with finite compactness numbers. (English summary) **2001d:54021**

## 54A35 Consistency and independence results [see also 03E35]

**Eisworth, Todd** CH and first countable, countably compact spaces. (English summary) **2001k:54010**
**Homayouni, Soheil** Partitioning the $\Sigma$-products. (English summary) **2001d:54002**
**Malykhin, V. I.** Irresolvable countable spaces of weight less than $\mathfrak{c}$. (English summary) **2001b:54008**
— $C_p(I)$ is not subsequential. (English summary) **2001a:54008**
**Qiao, Yuan-Qing** Martin's axiom does not imply perfectly normal non-Archimedean spaces are metrizable. (English summary) **2001g:54007**
**Tall, Franklin D.** If it looks and smells like the reals .... (English summary) **2001d:54003**
**Zalgaller, V. A.** A separating spherical layer with maximum radius ratio. (Russian. English and Russian summaries) **2001h:54005**

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**Arkhangel'skiĭ, A. V.** (*with* Fedorchuk, V. V.) On condensations of countably compact spaces onto compact Hausdorff spaces. (Russian. English and Russian summaries)
— (*with* Just, Winfried; Reznichenko, E. A.; Szeptycki, Paul J.) Sharp bases and weakly uniform bases versus point-countable bases. (English summary) **2001f:54027**
**Balcerzak, Marek** (*with* Ciesielski, Krzysztof²; Rogowska, Dorota) Remark on meager $\Sigma^0_2$-supported $\sigma$-ideals on the real line. (English summary) **2001e:54052**
**Bridges, Douglas S.** Converses of Bishop's lemma on located sets. (English summary) **2001m:03126**
**Ciesielski, Krzysztof²** *see* **Balcerzak, Marek et al., 2001e:54052**
**Eisworth, Todd** On countably compact spaces satisfying $wD$ hereditarily. (English summary) **2001j:54021**
**Fedorchuk, V. V.** *see* **Arkhangel'skiĭ, A. V.**
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# 54Bxx Basic constructions

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**Dolecki, Szymon** (*with* Mynard, Frédéric) Convergence-theoretic mechanisms behind product theorems. (English summary) **2001e:54005**
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**Latif, Raja Mohammad** $D$-spaces. (English summary)

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**Bonanzinga, M.** (*with* Cammaroto, Filippo[1]; Matveev, Mikhail Valer′evich) Partial discretization of topologies. (Italian summary) **2001j:54002**
**Cammaroto, Filippo[1]** *see* **Bonanzinga, M. et al., 2001j:54002**
**Matveev, Mikhail Valer′evich** *see* **Bonanzinga, M. et al., 2001j:54002**

## 54Cxx Maps and general types of spaces defined by maps

### 54C05 Continuous maps

**Beceren, Yusuf** On semi $\alpha$-irresolute functions. (English summary)
**Bludova, Irina V.** On absolutely bounded trivially metrizable mappings. (English summary) **2001h:54019**
**Borubaev, A. A.** (*with* Chekeev, Asylbek A.) On the classification of complete uniformly continuous mappings. (Russian. English, Russian and Kirghiz summaries) **2001m:54006**
— (*with* Chekeev, Asylbek A.; Kasymova, T. D.) On the completeness index of uniformly continuous mappings. (Russian. English, Russian and Kirghiz summaries) **2001m:54007**
**Buhagiar, D.** The Tamano theorem in $\mathscr{MP}$. (English summary) **2001i:54011**
**Chekeev, Asylbek A.** *see* **Borubaev, A. A. et al., 2001m:54006** *and* **2001m:54007**
**De Marco, Giuseppe** For every $\varepsilon$ there continuously exists a $\delta$.

**Grande, Zbigniew** (*with* Strońska, Ewa) On some properties connected with continuity and measurability. (English summary) **2001f:54012**
**Kalenda, Ondřej F. K.** Embedding of the ordinal segment $[0, \omega_1]$ into continuous images of Valdivia compacta. (English summary) **2001a:54015**
— Continuous images and other topological properties of Valdivia compacta. (English summary) **2001a:54016**
**Kasymova, T. D.** *see* **Borubaev, A. A. et al., 2001m:54007**
**Kenderov, Petar S.** (*with* Kortezov, Ivaylo S.; Moors, Warren B.) Continuity points of quasi-continuous mappings. (English summary) **2001m:54008**
**Kohli, J. K.** (*with* Singh, Davinder) $D$-supercontinuous functions. (English summary)
**Kortezov, Ivaylo S.** *see* **Kenderov, Petar S. et al., 2001m:54008**
**Krasinkiewicz, Józef** Path-lifting property for 0-dimensional confluent mappings. (English summary) **2001h:54020**
— On the fiber product of mappings into the unit interval. (English summary) **2001h:54021**
**Li, Jin Jin** Some images on paracompact locally Lindelöf spaces. (Chinese. English and Chinese summaries)
**Maslyuchenko, V. K.** Separately continuous mappings of several variables with values in $\sigma$-metrizable spaces. (Ukrainian. English and Ukrainian summaries)
**Miculescu, Radu** A generalization of the notion of continuous function. (English summary)
**Moors, Warren B.** *see* **Kenderov, Petar S. et al., 2001m:54008**
**Pushpalatha, A.** *see* **Sundaram, Palaniappan**
**Santhi, R.** *see* **Sundaram, Palaniappan**
**Sichler, J.** (*with* Trnková, Věra) Continuous maps of products of metrizable spaces. (English summary) **2001m:54009**
**Singh, Davinder** *see* **Kohli, J. K.**
**Strońska, Ewa** *see* **Grande, Zbigniew, 2001f:54012**
**Sundaram, Palaniappan** (*with* Pushpalatha, A.) Strongly generalized closed sets in topological spaces. (English summary)
— (*with* Santhi, R.) Strongly generalized semi-preclosed sets and strongly semipre-$T_{1/2}$ space. (English summary)
**Tozzi, A.** (*with* Trnková, Věra) Clone segments of the Tychonoff modification of space. (English summary) **2001e:54019**
**Trnková, Věra** Spaces without nonconstant maps into $Y$. (English summary) **2001j:54009**
— Maps of finite powers of metric spaces (recursive conditions for spaces at work). (English summary) **2001j:54008**
— *see also* **Tozzi, A., 2001e:54019** *and* **Sichler, J., 2001m:54009**
**Troallic, Jean Pierre** Boundedness in $\overline{c}_p(X, Y)$ and equicontinuity. (English summary) **2001h:54022**
**Tsereteli, I.** On the one-to-one continuous mappings of special spaces. (English summary) **2001f:54013**

## Items with secondary classifications in 54C05

**Abbas, S. E.** *see* **Ramadan, A. A.** *and* **Kim, Yong Chan[2] et al.**
**Abd El-Hakeim, K. M.** (*with* Zeyada, F. M.; Sayed, O. R.) pre-continuity and $D(c, p)$-continuity in fuzzifying topology. (English summary) **2001m:54003**
**Arai, Tatsuya** (*with* Chinen, Naotsugu; Suda, Takayuki) Continuous maps of dendrites with finite branch points and nonwandering sets. (*see* **2001m:54001**)
**Arkhangel'skiĭ, A. V.** On topological and algebraic structure of extremally disconnected semitopological groups. (English summary) **2001k:54063**
— Strong disconnectedness properties and remainders in compactifications. (English summary) **2001e:54043**
**Badard, R.** Closure operators on families of pretopological spaces. I. Main properties and links to continuity. (English summary) **2001h:54006a**
— Closure operators on families of pretopological spaces. II. Application to final and initial structures. (English summary) **2001h:54006b**
**Cai, Wei Yuan** (*with* Li, Jin Jin) Star-countable $k$-networks and sequence-covering $s$-mappings. (Chinese. English and Chinese summaries) **2001d:54030**
**Cater, Frank S.** Variations on a theorem on rings of continuous functions. (English summary) **2001c:26003**
**Chaber, J.** (*with* Pol, Roman) On the Cantor-Bendixson derivative, resolvable ranks, and perfect set theorems of A. H. Stone. (English summary) **2001a:54050**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.) A weaker form of the property of Kelley. (English summary) **2001f:54037**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J., 2001f:54037**
**Chinen, Naotsugu** *see* **Arai, Tatsuya et al., (2001m:54001)**
**Daniel, Dale** Companion theorems for monotone normality and the Hahn-Mazurkiewicz theorem. (English summary) **2001g:54036**
— (*with* Treybig, L. B.) A decomposition theorem for locally connected Suslinian continua. (English summary) **2001k:54052**
**Farah, Ilijas** Analytic quotients: theory of liftings for quotients over analytic ideals on the integers. (English summary) **2001c:03076**
**Good, Chris** (*with* Stares, Ian) Monotone insertion of continuous functions. (English summary) **2001h:54028**
**Hager, Anthony W.** (*with* Martinez, Jorge[2]) Hulls for various kinds of $\alpha$-completeness in Archimedean lattice-ordered groups. (English summary) **2001a:06024**
**Holá, Ľubica** (*with* McCoy, Robert A.) Compactness in the fine and related topologies. (English summary) **2001i:54014**
**Jordan, Francis** Covering Baire 1 functions with Darboux functions and the cofinality of the ideal of meager sets. (English summary) **2001h:26006**
**Jungck, Gerald F.** (*with* Timm, Mathew) $H$-connected inverse limit spaces. (English summary) **2001j:54010**
**Kim, Yong Chan[2]** (*with* Ramadan, A. A.; Abbas, S. E.) Some weakly forms of fuzzy continuous mappings in $L$-fuzzy bitopological spaces. (English summary)
**Küçük, Yalçın** *see* **Zorlutuna, İdris**
**Kulpa, W.** (*with* Socha, Leslaw; Turzański, Marian) Parametric extension of the Poincaré theorem. (English summary) **2001j:26005**
**Li, Jin Jin** *see* **Cai, Wei Yuan, 2001d:54030**
**Lončar, Ivan** $R_1$-directed inverse systems of continuous images of arcs. (English summary) **2001g:54009**
**Marciszewski, Witold** Some recent results on function spaces $C_p(X)$. (*see* **2001f:54021**)
**Martinez, Jorge[2]** *see* **Hager, Anthony W., 2001a:06024**
**McCoy, Robert A.** *see* **Holá, Ľubica, 2001i:54014**
**Mustăţa, Costică** Uniqueness of the extension of semi-Lipschitz functions on quasi-metric spaces.
**Pant, R. P.** Discontinuity at fixed points. (English summary)
**Pasynkov, Boris A.** On the geometry of continuous mappings of countable functional weight. (Russian. English and Russian summaries) **2001i:54039**
**Pol, Roman** *see* **Chaber, J., 2001a:54050**
**Pultr, A.** (*with* Tozzi, A.) A note on reconstruction of spaces and maps from lattice data. (English summary) **2001m:54018**
**Ramadan, A. A.** (*with* Abbas, S. E.) On several types of continuity in fuzzy bitopological spaces. (English summary)
— *see also* **Kim, Yong Chan[2] et al.**
**Sayed, O. R.** *see* **Abd El-Hakeim, K. M. et al., 2001m:54003**
**Shi, Fu Gui** Product operations of fuzzy pointwise metric spaces. (English summary)
**Socha, Leslaw** *see* **Kulpa, W. et al., 2001j:26005**
**Stares, Ian** *see* **Good, Chris, 2001h:54028**
**Suda, Takayuki** *see* **Arai, Tatsuya et al., (2001m:54001)**
**Sun, Tai Xiang** Equicontinuity of $\sigma$-maps. (Chinese. English and Chinese summaries) **2001j:54049**
**Terepeta, Malgorzata** (*with* Wagner-Bojakowska, Elżbieta) $\psi$-density topology. (English summary) **2001c:28004**
**Tian, Ming Xin** (*with* Yang, Zhi Min) Unascertained continuous functions. (Chinese. English and Chinese summaries)
**Timm, Mathew** *see* **Jungck, Gerald F., 2001j:54010**
**Tozzi, A.** *see* **Pultr, A., 2001m:54018**
**Treybig, L. B.** *see* **Daniel, Dale, 2001k:54052**
**Tsereteli, I.** On a dimension-like function and its behavior under continuous mappings of special spaces. (English summary) **2001h:54064**
**Turzański, Marian** *see* **Kulpa, W. et al., 2001j:26005**
**Wagner-Bojakowska, Elżbieta** *see* **Terepeta, Malgorzata, 2001c:28004**
**Wroński, Stanisław** On a family of functions defined by the boundary operator. (English summary) **2001a:54022**
**Yamazaki, Kaori** A cardinal generalization of $C^*$-embedding and its applications. (English summary) **2001k:54024**
**Yang, Zhi Min** *see* **Tian, Ming Xin**
**Zahran, A. M.** On some weakly forms of fuzzy continuous mappings in fuzzy bitopological spaces. (English summary)
**Zeyada, F. M.** *see* **Abd El-Hakeim, K. M. et al., 2001m:54003**
**Zorlutuna, İdris** (*with* Küçük, Yalçın) Super and strongly faintly continuous multifunctions. (English summary)

## 54C08 Weak and generalized continuity

**Alamleh, Mohammad** *see* **Saleh, Mohammad A., (2001b:00025)**
**Banakh, T. O.** (*with* Maslyuchenko, V. K.; Mikhaĭlyuk, Vladimir Vasil'evich; Pshenichko, M. I.) Discontinuity points of almost continuous functions. (Ukrainian. English and Russian summaries) **2001k:54021**
**Borsík, Ján** (*with* Doboš, Jozef; Repický, Miroslav) Sums of quasicontinuous functions with closed graphs. (English summary) **2001d:54010**
**Doboš, Jozef** *see* **Borsík, Ján et al., 2001d:54010**
**Georgiou, D. N.** (*with* Papadopoulos, Basil K.) Weakly continuous, weakly $\vartheta$-continuous, super-continuous and topologies on function spaces. (English summary)
**Jafari, Saeid** (*with* Noiri, Takashi) Contra-super-continuous functions.
**Latif, Raja Mohammad** Semi-convergence of filters and nets. (English summary) **2001m:54010**
**Li, Zu Quan** Somewhat continuous family and its applications in a correspondence model under two topologies. (Chinese. English and Chinese summaries)
**Liu, Chuan** *see* **Tanaka, Yoshio[1], (2001g:54003)**
**Maslyuchenko, V. K.** *see* **Banakh, T. O. et al., 2001k:54021**
**Mikhaĭlyuk, Vladimir Vasil'evich** Separate continuity topology and a generalization of Sierpiński's theorem. (Ukrainian. English and Russian summaries)
— *see also* **Banakh, T. O. et al., 2001k:54021**
**Nasef, Arafa A.** On $b$-locally closed sets and related topics. (English summary)
**Noiri, Takashi** *see* **Jafari, Saeid** *and* **Popa, Valeriu**
**Papadopoulos, Basil K.** *see* **Georgiou, D. N.**
**Park, Jin Han** A decomposition of super-continuity. (English summary)
— (*with* Park, Jin Keun; Park, Seong Jun) Further results on rg-continuity. (English summary) **2001c:54007**
— (*with* Park, Jin Keun) On semi generalized locally closed sets and SGLC-continuous functions. (English summary)
**Park, Jin Keun** *see* **Park, Jin Han et al., 2001c:54007**
**Park, Seong Jun** *see* **Park, Jin Han et al., 2001c:54007**
**Pooniwala, R. K.** (*with* Singh, Virendra Pratap[2]) Some weaker forms of continuous mappings and their properties. (English summary)
**Popa, Valeriu** (*with* Noiri, Takashi) On the definitions of some generalized forms of continuity under minimal conditions. (English summary)
**Pshenichko, M. I.** *see* **Banakh, T. O. et al., 2001k:54021**
**Rajamani, M.** *see* **Sundaram, Palaniappan**
**Rao, T. S. S. R. K.** Weakly continuous functions of Baire class 1. **2001h:54023**
**Repický, Miroslav** *see* **Borsík, Ján et al., 2001d:54010**
**Saleh, Mohammad A.** (*with* Alamleh, Mohammad) On $\theta$-closed sets and faint continuity. (English summary) (*see* **2001b:00025**)
— On almost strong $\theta$-continuity. (English summary)
**Singh, Virendra Pratap[2]** *see* **Pooniwala, R. K.**
**Sundaram, Palaniappan** (*with* Rajamani, M.) Some decompositions of regular generalized continuous maps in topological spaces. (English summary)
**Tanaka, Yoshio[1]** (*with* Liu, Chuan) Fiber properties of closed maps, and weak topology. (*see* **2001g:54003**)

Items with secondary classifications in 54C08

**Abbas, S. E.** *see* **Kim, Yong Chan[2] et al.** *and* **Ramadan, A. A.**
**Abd El-Hakeim, K. M.** (*with* Zeyada, F. M.; Sayed, O. R.) Two types of fuzzy semi-continuity and four types of fuzzy irresoluteness in fuzzifying topological spaces. (English summary)
— (*with* Zeyada, F. M.) Fuzzy totally semi-$R$ continuous functions. (English summary)
— Fuzzy weak totally semicontinuous and fuzzy weak totally precontinuous mappings. (English summary)
**Abd-Ellatif, A. A.** *see* **Mahmoud, F. S. et al.**
**Al-Ghamdi, Mohammed Ali** *see* **Saleemi, B. A. et al.**
**Balasubramanian, G.** (*with* Chandrasekar, V.) Totally fuzzy semicontinuous functions. (English summary)
— *see also* **Thangaraj, G.**
**Beceren, Yusuf** (*with* Noiri, Takashi) On $\alpha$-precontinuous functions. (English summary)
— On semi $\alpha$-irresolute functions. (English summary)
**Bhattacharya, Debasish[2]** *see* **Bhaumik, R. N., 2001c:54015**
**Bhaumik, R. N.** (*with* Bhattacharya, Debasish[2]) Regular $cb$-spaces. (English summary) **2001c:54015**
— (*with* Mukherjee, Anjan) Some more results on induced fuzzy supra topological spaces. (English summary)
**Bokalo, B. M.** (*with* Malanyuk, O. P.) Some properties of topological spaces of almost continuous mappings. (Ukrainian. English and Russian summaries)
**Chandrasekar, V.** *see* **Balasubramanian, G.**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.; Illanes, Alejandro) Openness of induced projections. (English summary) **2001b:54010**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J. et al., 2001b:54010**
**Chmielewska, Katarzyna** (*with* Grande, Zbigniew) On the measurability and the Baire property of functions of two variables whose all vertical sections are derivatives. (English summary) **2001k:26016**
**Ciesielski, Krzysztof[2]** (*with* Jastrzębski, Jan) Darboux-like functions within the classes of Baire one, Baire two, and additive functions. (English summary) **2001g:26001**
**Crannell, Annalisa** (*with* Martelli, Mario Umberto) Dynamics of quasicontinuous systems. (English summary) **2001d:37012**
**Fath Alla, M. A.** *see* **Mahmoud, F. S. et al.**
**Good, Chris** (*with* Stares, Ian) Monotone insertion of continuous functions. (English summary) **2001h:54028**
**Grande, Zbigniew** *see* **Chmielewska, Katarzyna, 2001k:26016**
**Illanes, Alejandro** *see* **Charatonik, Janusz J. et al., 2001b:54010**
**Jafari, Saeid** On rarely precontinuous functions. (English summary)
— (*with* Noiri, Takashi) On almost precontinuous functions. (English summary)
**Jałocha, J.** Quotients of quasi-continuous functions. (English summary) **2001k:26002**
**Jastrzębski, Jan** *see* **Ciesielski, Krzysztof[2], 2001g:26001**
**Kenderov, Petar S.** (*with* Kortezov, Ivaylo S.; Moors, Warren B.) Continuity points of quasi-continuous mappings. (English summary) **2001m:54008**
**Khedr, F. H.** (*with* Zeyada, F. M.; Sayed, O. R.) $\alpha$-continuity and $c\alpha$-continuity in fuzzifying topology. (English summary)
**Kim, Yong Chan[2]** (*with* Ramadan, A. A.; Abbas, S. E.) FP strongly continuity, FP $\theta$-continuity and FP weakly $\theta$-continuity. (English summary)
**Kindler, J.** Domokos' minimax theorem for usc-lsc functions. (English summary) **2001b:49012**
**Klepnev, D. È.** *see* **Klimkin, V. M.**
**Klimkin, V. M.** (*with* Klepnev, D. È.) On the uniform continuity of a family of nonadditive weakly regular set functions. (Russian)
**Kortezov, Ivaylo S.** *see* **Kenderov, Petar S. et al., 2001m:54008**
**Lee, Kyung Bok** (*with* Park, Jong Suh) Density of partial continuity. (English summary) **2001g:54045**
**Liu, Han** *see* **Wang, Ge Ping**
**Mahmoud, F. S.** (*with* Fath Alla, M. A.; Abd-Ellatif, A. A.) Fuzzy strongly semiopen sets and fuzzy strong semicontinuity in fuzzy bitopological spaces. (English summary)
**Malanyuk, O. P.** *see* **Bokalo, B. M.**
**Martelli, Mario Umberto** *see* **Crannell, Annalisa, 2001d:37012**
**McCoy, Robert A.** Spaces of semicontinuous forms. (English summary) **2001j:54012**
— Densely continuous forms in Vietoris hyperspaces. (English summary) **2001h:54017**
**Moors, Warren B.** *see* **Kenderov, Petar S. et al., 2001m:54008**
**Mukherjee, Anjan** *see* **Bhaumik, R. N.**
**Nadler, Sam B., Jr.** Arc-like and circle-like almost continuous images of Peano continua. (English summary) **2001k:54055**
**Noiri, Takashi** *see* **Jafari, Saeid**; **Popa, Valeriu** *and* **Beceren, Yusuf**
**Park, Jong Suh** *see* **Lee, Kyung Bok, 2001g:54045**
**Popa, Valeriu** (*with* Noiri, Takashi) On $s$-precontinuous multifunctions. (English summary)
— (*with* Noiri, Takashi) On $S-\beta$-continuous multifunctions. (English summary)
**Prasad, Ram** (*with* Thakur, S. S.; Saraf, R. K.) Fuzzy almost $\alpha$-continuous mappings. (English summary)
**Ramadan, A. A.** (*with* Abbas, S. E.) On several types of continuity in fuzzy bitopological spaces. (English summary)
— *see also* **Kim, Yong Chan[2] et al.**
**Sakai, Katsuro** (*with* Uehara, Shigenori) Spaces of upper semi-continuous multi-valued functions on separable metric spaces. (English summary) **2001k:57028**
**Saleemi, B. A.** (*with* Shahzad, Naseer; Al-Ghamdi, Mohammed Ali) Almost continuity vs closure continuity. (English summary)
**Sampath Kumar, S.** Fuzzy pairwise semiregularization spaces and mappings. (English summary)
**Saraf, R. K.** *see* **Prasad, Ram et al.**
**Sayed, O. R.** *see* **Khedr, F. H. et al.** *and* **Abd El-Hakeim, K. M. et al.**
**Shahzad, Naseer** *see* **Saleemi, B. A. et al.**
**Stares, Ian** *see* **Good, Chris, 2001h:54028**
**Stefanescu, Anton** On a two-functions alternative theorem. (English summary)
**Thakur, S. S.** *see* **Prasad, Ram et al.**
**Thangaraj, G.** (*with* Balasubramanian, G.) On somewhat fuzzy semicontinuous functions. (English summary)
**Toma, Vladimír** (*with* Zuzčák, I.) Bases and homeomorphisms in polytopological spaces. (English summary) **2001a:54003**
**Uehara, Shigenori** *see* **Sakai, Katsuro, 2001k:57028**
**Wang, Ge Ping** (*with* Liu, Han) $\overline{R}_+(L)$-valued semi-continuous mappings and continuous $D$-cones. (Chinese. English and Chinese summaries)
**Wesołowska, Jolanta** On the strong quasi-continuity of multivalued maps of two variables. (English summary) **2001h:26017**
**Wroński, Stanisław** On a family of functions defined by the boundary operator. (English summary) **2001a:54022**
**Yalvaç, T. Hatice** A unified approach to compactness and filters. (English summary)
**Zahran, A. M.** Almost continuity and $\delta$-continuity in fuzzifying topology. (English summary)
**Zaytsev, Oleg** On discontinuous mappings in metric spaces. (English and Latvian summaries) **2001f:54023**
**Zeyada, F. M.** *see* **Abd El-Hakeim, K. M. et al.** *and* **Khedr, F. H. et al.**
**Zuzčák, I.** *see* **Toma, Vladimír, 2001a:54003**

## 54C10 Special maps on topological spaces (open, closed, perfect, etc.)

**Abd El-Monsef, M. E.** (*with* Mahmoud, R. A.; Nasef, Arafa A.) On quasi $I$-openness and quasi $I$-continuity. (English summary) **2001a:54017**
**Al-Ghamdi, Mohammed Ali** *see* **Saleemi, B. A. et al.**
**Baker, C. W.** On a weak form of almost weakly continuous functions. (English summary)
— *see also* **Caldas Cueva, Miguel, 2001i:54012**
**Beceren, Yusuf** (*with* Noiri, Takashi) On $\alpha$-precontinuous functions. (English summary)
**Borsík, Ján** Mappings preserving Cauchy nets. (English summary) (*see* **2001d:00018**)
**Burke, Maxim R.** Continuous functions which take a somewhere dense set of values on every open set. (English summary) **2001f:54014a**
— Erratum to: "Continuous functions which take a somewhere dense set of values on every open set". **2001f:54014b**
**Caldas Cueva, Miguel** On maps and generalized $\Lambda_s$-sets. (English summary)
— (*with* Baker, C. W.) Contra pre semi-open maps. (English summary) **2001i:54012**
— More on generalized homeomorphisms in topological spaces. (English and Spanish summaries)
— (*with* Jafari, Saeid) Some properties of contra-$\beta$-continuous functions. (English summary)
**Charatonik, Janusz J.** Variations of homogeneity. (English summary) **2001k:54022**
— (*with* Pyrih, Pavel) Atomic mappings can spoil lightness of open mappings. (English summary) **2001h:54024**
— (*with* Charatonik, Włodzimierz J.) Semi-confluent mappings. (English summary) **2001m:54011**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J., 2001m:54011**
**Gartside, P. M.** (*with* Mohamad, Abdul M.) Cleavability of manifolds. (English summary) **2001g:54010**
**Ge, Ying** The closed Lindelöf images of locally compact spaces. (Chinese. English and Chinese summaries) **2001e:54020**
**Grace, E. E.** (*with* Vought, E. J.) Hereditarily weakly confluent maps and a characterization of class HW. (English summary) **2001m:54012**
**Holický, Petr** Remark on the point of continuity property and the strong Baire property in the restricted sense. (English summary)
**Jafari, Saeid** (*with* Noiri, Takashi) On rarely sober $\theta$-irresolute multifunctions. (English summary)
— On rarely precontinuous functions. (English summary)
— (*with* Noiri, Takashi) On almost precontinuous functions. (English summary)
— (*with* Noiri, Takashi) Properties of $\theta$-semi-continuous functions. (English summary)
— On rarely $\beta$-continuous functions. (English summary)
— *see also* **Caldas Cueva, Miguel**
**Jiang, Shou Li** *see* **Li, Jin Jin, 2001a:54018**
**Jungck, Gerald F.** (*with* Timm, Mathew) $H$-connected inverse limit spaces. (English summary) **2001j:54010**
**Kato, Hisao** (*with* Levin, M. A.) Open maps on manifolds which do not admit disjoint closed subsets intersecting each fiber. (English summary) **2001b:54017**
**Kovačević, Ilija** Some properties of subsets, almost closed mappings and paracompactness. (English summary) **2001k:54023**
**Krzempek, Jerzy** Compositions of simple maps. (English summary) **2001b:54018**
**Küçük, Mahide** (*with* Zorlutuna, İdris) A unified theory for weak separation properties. (English summary)
**Kukrak, G. O.** On mappings of exponential spaces. (Russian. English and Russian summaries) **2001m:54013**
**Künzi, Hans-Peter A.** Preservation of completeness under mappings in asymmetric topology. (English summary) **2001j:54011**
**Levin, M. A.** *see* **Kato, Hisao, 2001b:54017**
**Li, Jin Jin** (*with* Jiang, Shou Li) Locally countable networks and strong $s$-mappings. (Chinese. English and Chinese summaries) **2001a:54018**
— Compact-covering ss-images of metric spaces. (English summary)
**Li, Ke Dian** A range decomposition theorem. (Chinese. English and Chinese summaries)
**Mahmoud, R. A.** *see* **Abd El-Monsef, M. E. et al., 2001a:54017**
**Mohamad, Abdul M.** *see* **Gartside, P. M., 2001g:54010**
**Nall, Van C.** Reduced $k$-to-1 maps and graphs with no $k$-to-1 cut set. (English summary) **2001c:54008**
**Nasef, Arafa A.** *see* **Abd El-Monsef, M. E. et al., 2001a:54017**
**Noiri, Takashi** *see* **Jafari, Saeid** *and* **Beceren, Yusuf**
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**Pyrih, Pavel** An example for mappings related to semi-confluence. (English summary) **2001f:54015**
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**Rajamani, M.** *see* **Sundaram, Palaniappan**
**Sakálová, Katarína** The maximal additive family for the class of graph continuous real functions. (English summary) (*see* **2001d:00019**)
**Saleemi, B. A.** (*with* Shahzad, Naseer; Al-Ghamdi, Mohammed Ali) On $s$-almost open functions. (English and Serbo-Croatian summaries)
— (*with* Shahzad, Naseer; Al-Ghamdi, Mohammed Ali) Almost continuity vs closure continuity. (English summary)
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**Song, Jian Wei** (*with* Tymchatyn, E. D.) Free spaces. (English summary) **2001g:54011**
**Sundaram, Palaniappan** (*with* Rajamani, M.) On decompositions of generalized continuous maps in topological spaces. (English summary)
— (*with* Rajamani, M.) Some decompositions of $\alpha$-continuity in topological spaces. (English summary)
**Timm, Mathew** Domains of perfect local homeomorphisms. (English summary) **2001e:54021**
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— (*with* Bella, Angelo) On pseudocompactness of remainders of topological groups and some classes of mappings. (English summary) **2001i:54022**
**Bankston, Paul** Some applications of the ultrapower theorem to the theory of compacta. (English summary) **2001f:54011**
**Beceren, Yusuf** Almost $\alpha$-irresolute functions. (English summary)
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**Bella, Angelo** *see* **Arkhangel'skiĭ, A. V., 2001i:54022**
**Bernal-González, Luis** Universal images of universal elements. (English summary) **2001f:47002**
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**Chatyrko, V. A.** On factorization theorem for transfinite dimension $\dim_C$. (English summary) **2001j:54039**
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**Giuli, Eraldo** (*with* Tholen, Walter) Openness with respect to a closure operator. (English summary) **2001i:18004**
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**Kaul, R. N.** (*with* Lalitha, C. S.) A note on arcwise connected and related functions. (English summary) **2001k:26008**
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**Kočinac, Ljubiša D.** Star-Menger and related spaces. II. (English summary) **2001k:54033**
**Kozlov, Konstantin L.** On $\kappa$-closed images of subsets of topological products. (Russian. English and Russian summaries) **2001f:54005**
**Krasinkiewicz, Józef** Path-lifting property for 0-dimensional confluent mappings. (English summary) **2001h:54020**
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**Li, Jin Jin** (*with* Cai, Wei Yuan) Notes on sequence-covering $s$-mappings. (Chinese. English and Chinese summaries) **2001m:54025**
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— (*with* Li, Ke Dian) The sequence-covering compact images of paracompact locally compact spaces. (English summary) **2001j:54030**
— Paracompact locally separable spaces, and their images. (Chinese. English and Chinese summaries)
— (*with* Lin, Shou) Sequence-covering cs-images of metric spaces. (English summary) **2001h:54052**
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**Lin, Shou** (*with* Yan, Peng Fei) On sequence-covering compact mappings. (Chinese. English and Chinese summaries) **2001m:54030**
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**Lončar, Ivan** The property of Kelley in nonmetric continua. (English summary) **2001h:54014**
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**Macías Alvarez, Sergio** (*with* Oversteegen, L. G.; Widener, M. P.) Confluent images of the hairy arc. (English summary) **2001d:54029**
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**Opěla, David** (*with* Pyrih, Pavel; Šámal, Robert) An example of openly minimal dendrite. (English summary) **2001j:54042**
**Ostrovskiĭ, A. V.** Set-valued stable maps. (English summary) **2001e:54035**
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**Pillot, Michel** Tri-quotient maps become inductively perfect with the aid of consonance and continuous selections. (English summary) **2001e:54039**
**Plewe, Till** Quotient maps of locales. (English summary) **2001j:18009**
**Pyrih, Pavel** *see* **Opěla, David et al., 2001j:54042**
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**Rusu, Elena** Direct products of quasiregular mappings. (English summary) **2001e:30031**
**Šámal, Robert** *see* **Opěla, David et al., 2001j:54042**
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## 54C15 Retraction

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**Charatonik, Janusz J.** On absolute retracts for classes of continua. (English summary) **2001h:54026**

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**Gul'ko, Sergei P.** Semilattice of retractions and the properties of continuous function spaces of partial maps. (*see* **2001f:54021**)
**Illanes, Alejandro** A retractible non-locally connected dendroid. (English summary) **2001d:54028**
— *see also* **Charatonik, Janusz J. et al., 2001k:54051**
**Mahmoud, F. S.** (*with* Abd-Ellatif, A. A.) Fuzzy pairwise retract and fuzzy pairwise strong retract. (English summary)

## 54C20 Extension of maps

**Ageev, Sergei M.** (*with* Bogatyĭ, Semen A.; Jiménez, Rolando) Free equivariant extensors. (English summary) **2001g:54012**
**Banakh, T. O.** AE(0)-spaces and regular operators extending (averaging) pseudometrics. (English summary)
— (*with* Bessaga, Czesław) On linear operators extending [pseudo]metrics. (English summary) **2001e:54023**
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**Brodskiĭ, N. B.** On the extension of $UV^n$-valued mappings. (Russian. Russian summary) **2001d:54011**
**Costantini, Camillo** (*with* Marcone, Alberto) Extensions of functions which preserve the continuity on the original domain. (English summary) **2001b:54019**
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**Kolář, Jan** Simultaneous extension operators for the density topology. (English summary) **2001b:54020**
**Kubiś, Wiesław** Extension criterion for continuous convexity preserving maps. (English summary) **2001e:54024**
**Marcone, Alberto** *see* **Costantini, Camillo, 2001b:54019**
**Matoušková, Eva** Extensions of continuous and Lipschitz functions. (English summary) **2001c:54009**
**Mel'nikov, E. V.** On the extension of uniformly continuous mappings. (Russian. English summary) **2001g:54013**

**Ostrovskiĭ, A. V.** $s$-covering maps with complete fibers. (English summary) **2001b:54021**
**Yamazaki, Kaori** Extensions of partitions of unity. (English summary) **2001b:54022**
— A cardinal generalization of $C^*$-embedding and its applications. (English summary) **2001k:54024**
**Zarichnyĭ, M. M.** Extension property and ANR-systems. (English summary) **2001e:54025**

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**Borges, Carlos R.** $K_W$ does not imply $K_W^*$. (English summary) **2001c:54010**
**Drozdovskiĭ, S. A.** (*with* Filippov, V. V.) A selection theorem for a new class of multivalued mappings. (Russian. Russian summary) **2001h:54033**
**Edwards, Terrence** (*with* Joseph, James E.; Kwack, Myung H.) Non-Hausdorff extension and convergence theorems motivated by generalizations of the big Picard theorem. (English summary) **2001f:32026**
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**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) On the Stone-Čech bicompactification of a bispace. (English summary) **2001a:54033**
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**Salbany, Sergio** On injective topological spaces and bispaces. (English summary) (*see* **2001f:54001**)
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**Sioen, M.** On the epireflectivity of the Wallman-Shanin-type compactification for approach spaces. (English summary) **2001h:18005**
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**Szczawińska, Joanna** On extension and continuity of $p$-additive functions. (English summary) **2001f:26040**
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**Zubov, A. Yu.** Germs of sets and functions in fiberwise general topology. (Russian. English and Russian summaries) **2001h:54025**

## 54C25 Embedding

**Bogatyĭ, Semen A.** (*with* Fedorchuk, V. V.; van Mill, Jan) On mappings of compact spaces into Cartesian spaces. (English summary) **2001h:54027**
**Ershov, Yurĭi Leonidovich** The injective hull and the bc-hull of a topological space. (English summary) (*see* **2001i:00035**)
**Fedeli, Alessandro** (*with* Le Donne, Attilio) Embeddings into normal first countable spaces. (English summary) **2001i:54013**
**Fedorchuk, V. V.** *see* **Bogatyĭ, Semen A. et al., 2001h:54027**
**Kurlin, V. A.** Basic embeddings into a product of graphs. (English summary) **2001b:54023**
**Le Donne, Attilio** *see* **Fedeli, Alessandro, 2001i:54013**
**van Mill, Jan** *see* **Bogatyĭ, Semen A. et al., 2001h:54027**
**Minc, Piotr** Embedding of simplicial arcs into the plane. (English summary) **2001e:54026**
**Mizokami, Takemi** *see* **Shimane, Norihito, (2001g:54003)**
**Shimane, Norihito** (*with* Mizokami, Takemi) On the embedding and developability of mapping spaces with compact open topology. (English summary) (*see* **2001g:54003**)
**Yamazaki, Kaori** $P$(locally-finite)-embedding and related topics. (*see* **2001a:54001**)

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**Akhmet'ev, P. M.** Embeddings of compacta, stable homotopy groups of spheres, and singularity theory. (Russian. Russian summary) **2001h:55017**
**Bogatyĭ, Semen A.** Compact homogeneity of the universal metric Uryson space. (Russian)
**Ciesielski, Krzysztof²** (*with* Flagg, R. C.; Kopperman, Ralph) Characterizing topologies with bounded complete computational models. (English summary) **2001b:06033**
**Fedeli, Alessandro** (*with* Le Donne, Attilio) $\omega$-connectifications and product spaces. (English summary) **2001g:54023**
**Flagg, R. C.** *see* **Ciesielski, Krzysztof² et al., 2001b:06033**
**Gupta, Anupam** Embedding tree metrics into low dimensional Euclidean spaces. (English summary) (*see* **2001f:68004**)
— Embedding tree metrics into low-dimensional Euclidean spaces. (English summary) **2001b:68144**
**Iliadis, Stavros** A construction of containing spaces. (English summary) **2001e:54018**
**Kopperman, Ralph** *see* **Ciesielski, Krzysztof² et al., 2001b:06033**
**Le Donne, Attilio** *see* **Fedeli, Alessandro, 2001g:54023**
**Lemin, A. Yu.** (*with* Lemin, Vladimir A.) On a universal ultrametric space. (English summary) **2001b:54035**
**Lemin, Vladimir A.** *see* **Lemin, A. Yu., 2001b:54035**
**Mrowka, S.** $\mathcal{R}$-compact spaces with weight $X < \mathrm{Exp}_{\mathcal{R}} X$. (English summary) **2001b:54007**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) On contractible $n$-dimensional compacta, non-embeddable into $\mathbf{R}^{2n}$. (English summary) **2001k:55003**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001k:55003**
**Yamazaki, Kaori** Extensions of partitions of unity. (English summary) **2001b:54022**

## 54C30 Real-valued functions [see also 26–XX]

**Blasco, José L.** On the representation of function spaces as spaces of restrictions of continuous functions. (English summary) **2001g:54014**
**Borges, Carlos R.** $K_W$ does not imply $K_W^*$. (English summary) **2001c:54010**
**Bustamante González, Jorge** (*with* Montalvo Durán, Francisco) Uniform approximation for sublattices of $C^*(X)$. (English summary) **2001g:54015**
**Charatonik, Janusz J.** (*with* Omiljanowski, Krzysztof; Villani, Alfonso) Interiority of real functions. (English summary) **2001g:54016**
**Good, Chris** (*with* Stares, Ian) New proofs of classical insertion theorems. (English summary) **2001a:54020**
— (*with* Stares, Ian) Monotone insertion of continuous functions. (English summary) **2001h:54028**
**Henriksen, Melvin** (*with* Smith, F. A.) A look at biseparating maps from an algebraic point of view. (English summary) **2001d:54012**
**Hou, Ji-Cheng** Topological convergence for continuous function spaces. (English summary) **2001a:54021**
**Kiriakouli, P. Ch.** Classifications and characterizations of Baire-1 functions. (English summary) **2001d:54013**
**Kucia, Anna** (*with* Nowak, Andrzej S.) Applications of the Hausdorff approach to semicontinuous functions. (English summary) **2001e:54027**
**Montalvo Durán, Francisco** *see* **Bustamante González, Jorge, 2001g:54015**
**Nowak, Andrzej S.** *see* **Kucia, Anna, 2001e:54027**
**Olver, Peter J.** (*with* Raphael, Robert M.) The absolute value of functions. (English summary) **2001c:54011**
**Omiljanowski, Krzysztof** *see* **Charatonik, Janusz J. et al., 2001g:54016**
**Pawlak, Helena** On the set $B_1^{**}$ in the space $B_1$ of functions. (English summary) **2001e:54028**
**Raphael, Robert M.** (*with* Woods, R. Grant) The epimorphic hull of $C(X)$. (English summary) **2001c:54012**
— *see also* **Olver, Peter J., 2001c:54011**
**Smith, F. A.** *see* **Henriksen, Melvin, 2001d:54012**
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**Villani, Alfonso** *see* **Charatonik, Janusz J. et al., 2001g:54016**
**Woods, R. Grant** *see* **Raphael, Robert M., 2001c:54012**
**Wroński, Stanisław** On a family of functions defined by the boundary operator. (English summary) **2001a:54022**

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**Baars, Jan** Function spaces on first countable paracompact spaces. (English summary)
**Beer, Gerald** On convergence to infinity. (English summary) **2001c:54019**
**Burke, Maxim R.** Continuous functions which take a somewhere dense set of values on every open set. (English summary) **2001f:54014a**
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**Cater, Frank S.** Variations on a theorem on rings of continuous functions. (English summary) **2001c:26003**
**Chattopadhyay, K. C.** (*with* Ghosh, D. P.; Guin, Sushama) Proximities and subsets of $C^*(X)$. (English summary)
**Cheng, Cao-Zong** *see* **Lin, Bor-Luh, 2001k:49012**
**Chmielewska, Katarzyna** (*with* Grande, Zbigniew) On the measurability and the Baire property of functions of two variables whose all vertical sections are derivatives. (English summary) **2001k:26016**
**Ciesielski, Krzysztof²** (*with* Jastrzębski, Jan) Darboux-like functions within the classes of Baire one, Baire two, and additive functions. (English summary) **2001g:26001**
— (*with* Wojciechowski, Jerzy) Topological dimension and sums of connectivity functions. (English summary) **2001k:54057**
— (*with* Natkaniec, Tomasz; Wojciechowski, Jerzy) Extending connectivity functions on $\mathbb{R}^n$. (English summary) **2001m:26024**
**Ghosh, D. P.** *see* **Chattopadhyay, K. C. et al.**
**Grande, Zbigniew** *see* **Chmielewska, Katarzyna, 2001k:26016**
**Guin, Sushama** *see* **Chattopadhyay, K. C. et al.**
**Jastrzębski, Jan** *see* **Ciesielski, Krzysztof², 2001g:26001**
**Jordan, Francis** Quasicontinuous functions with a little symmetry are extendable. (English summary) **2001c:26004**
**Kennedy, Judy A.** *see* **Peratt, Barry A., 2001g:58015**
**Kortezov, Ivaylo S.** The function space over the Helly compact is sigma-fragmentable. (English summary) **2001f:54026**
**Krasinkiewicz, Józef** On the fiber product of mappings into the unit interval. (English summary) **2001h:54021**
**Lin, Bor-Luh** (*with* Cheng, Cao-Zong) A minimax theorem involving weakly downward functions. (English summary) **2001k:49012**
**Marciszewski, Witold** Some recent results on function spaces $C_p(X)$. (*see* **2001f:54021**)
**Muthuvel, Kandasamy** Composition of functions. (English summary) **2001d:26004**
**Natkaniec, Tomasz** *see* **Ciesielski, Krzysztof² et al., 2001m:26024**
**Pawlak, Ryszard Jerzy** On some class of functions intermediate between the class $B_1^*$ and the family of continuous functions. (English summary) **2001h:26004**
**Peratt, Barry A.** (*with* Kennedy, Judy A.) Properties of generic altitude functions. (English summary) **2001g:58015**
**Sakálová, Katarína** The maximal additive family for the class of graph continuous real functions. (English summary) (*see* **2001d:00019**)
**Velichko, N. V.** On the sequential completeness of $C_k(X)$. (Russian. English and Russian summaries) **2001f:54020**
**Wagner-Bojakowska, Elżbieta** (*with* Wilczyński, Władysław) Cauchy condition for the convergence in category. **2001a:28004**

**Wilczyński, Władysław** *see* **Wagner-Bojakowska, Elżbieta, 2001a:28004**
**Wojciechowski, Jerzy** *see* **Ciesielski, Krzysztof[2] et al., 2001k:54057** *and* **2001m:26024**
**Wojdowski, Wojciech** Continuity in terms of functional convergence. (English summary) **2001f:26017**
**Zarelua, A. V.** The algebraic structure of the ring of functions of some universal spaces. (Russian. English and Russian summaries) **2001k:54027**

## 54C35 Function spaces [see also 46Exx, 58D15]

**Arkhangel'skiĭ, A. V.** Projective $\sigma$-compactness, $\omega_1$-caliber, and $C_p$-spaces. (English summary) **2001e:54029**
**Baars, Jan** Function spaces on first countable paracompact spaces. (English summary)
**Babinkostova, Liljana** *see* **Kočinac, Ljubiša D. et al., 2001f:54019** *and* **2001m:54016**
**Blasco, José L.** On the existence of subalgebras of $C(X)$ which are not isomorphic to $C(Y)$ for any space $Y$. (English summary) **2001h:54029**
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**Bouziad, Ahmed** Le degré de Lindelöf est $l$-invariant. (English summary) [The Lindelöf degree is $l$-invariant] **2001f:54016**
**Cascales, Bernardo** (*with* Namioka, I.; Vera, G.) The Lindelöf property and fragmentability. (English summary) **2001b:54024**
**Choban, M. M.** Functional equivalence of topological spaces. (English summary) **2001m:54015**
**Das, Pratulananda** *see* **Lahiri, B. K.**
**Di Concilio, Anna** (*with* Naimpally, Somashekhar Amrith) Function space topologies on (partial) maps. (*see* **2001f:54021**)
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**(Di Maio, Giuseppe)** *see* **Recent progress in function spaces, 2001f:54021**
**Dutta, Krishnendu** *see* **Ganguly, Sobhakar**
**Edwards, Terrence** On function spaces with the compact-open topology. (English summary) **2001f:54017**
**Ganguly, Sobhakar** (*with* Dutta, Krishnendu) A new topology on function space.
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**Gul'ko, Sergei P.** Semilattice of retractions and the properties of continuous function spaces of partial maps. (*see* **2001f:54021**)
— (*with* Sokolov, G. A.) Compact spaces of separately continuous functions in two variables. (English summary) **2001e:54030**
**Holá, Ľubica** Topologies on the space of partial maps. (*see* **2001f:54021**)
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**Kalenda, Ondřej F. K.** A characterization of Valdivia compact spaces. (English summary) **2001d:54015**
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**Kulkarni, S. H.** Arzela-Ascoli theorem is stable. (English summary)
**Lahiri, B. K.** (*with* Das, Pratulananda) Density and the space of approximately continuous mappings. (English summary)
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**Marciszewski, Witold** Some recent results on function spaces $C_p(X)$. (*see* **2001f:54021**)
**Marconi, Umberto** On the Hausdorff convergence of functions of one real variable. (English summary) **2001k:54025**
**McCoy, Robert A.** Spaces of semicontinuous forms. (English summary) **2001j:54012**
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**Naimpally, Somashekhar Amrith** A brief survey of topologies on function spaces. (*see* **2001f:54021**)
— *see also* **Di Concilio, Anna, 2001c:54013; 2001d:54014** *and* **(2001f:54021)**
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**Park, Sung Ki** On the duality of the space $X$ and the algebra $C_p(X)$. (English summary) **2001d:54016**
**Porter, Kathryn F.** Topologies of quasi-uniform convergence on groups of homeomorphisms. (English summary) **2001j:54013**
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**Qin, Feng** Function space of $Z$-continuous lattices. (Chinese. English and Chinese summaries)
**Ray, G. G.** *see* **Sengupta, Ashok, 2001k:54026**
**Romaguera, Salvador** (*with* Sanchis, Manuel) Semi-Lipschitz functions and best approximation in quasi-metric spaces. (English summary) **2001a:54023**
**Sakai, Shozo** Some remarks on $|C(X)|$.
**Sanchis, Manuel** *see* **Romaguera, Salvador, 2001a:54023**
**Sengupta, Ashok** (*with* Ray, G. G.) A multifunctional extension of function spaces: chaotic systems are maximally ill-posed. (English summary) **2001k:54026**
**Sokolov, G. A.** *see* **Gul'ko, Sergei P., 2001e:54030**
**Terada, Toshiji** Topological lattices $C_k(X)$ and $C_p(X)$: embeddings and isomorphisms. (English summary) **2001j:54014**
**Tkachuk, V. V.** Behaviour of the Lindelöf $\Sigma$-property in iterated function spaces. (English summary) **2001h:54030**
**Velichko, N. V.** On the sequential completeness of $C_k(X)$. (Russian. English and Russian summaries) **2001f:54020**
— On spaces $C_k(X)$. (English summary) **2001e:54031**
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**Arkhangel'skiĭ, A. V.** Moscow spaces, Pestov-Tkačenko problem, and $C$-embeddings. (English summary) **2001k:54062**
— On condensations of $C_p$-spaces onto compacta. (English summary) **2001c:54002**
**Azarpanah, F.** (*with* Soundararajan, T.) On functions vanishing at infinity to be an ideal in $C(X)$. (English summary)
**Banakh, T. O.** On hyperspaces and homeomorphism groups homeomorphic to products of absorbing sets and $\mathbf{R}^\infty$. (English summary) **2001k:57027**
— (*with* Bessaga, Czesław) On linear operators extending [pseudo]metrics. (English summary) **2001e:54023**
**Bessaga, Czesław** *see* **Banakh, T. O., 2001e:54023**
**Bouziad, Ahmed** Filters, consonance and hereditary Baireness. (English summary) **2001e:54016**
**Bunge, Marta** (*with* Niefield, Susan) Exponentiability and single universes. (English summary) **2001f:18020**
**Charalambous, M. G.** Constructing approximate inverse systems of metric spaces. (English summary) **2001b:54015**
**Chițescu, Ion** *see* **de Amo, E. et al., 2001m:46004**
**Díaz Carrillo, M.** *see* **de Amo, E. et al., 2001m:46004**
**Di Maio, Giuseppe** (*with* Meccariello, Enrico) Wjisman topology. [Wijsman topology] (*see* **2001f:54021**)
**Espínola, Rafael** (*with* Wiśnicki, Andrzej; Wośko, Jacek) A geometrical characterization of the $C(K)$ and $C_0(K)$ spaces. (English summary) **2001g:46026**
**Esterle, Jean** Remarques sur les théorèmes d'immersion de Hahn et Hausdorff et sur les corps de séries formelles. (English summary) [Remarks on the Hahn and Hausdorff embedding theorems and on fields of formal power series] **2001g:03084**
**Frankiewicz, R.** (*with* Plebanek, G.; Ryll-Nardzewski, C.) Between Lindelöf property and countable tightness. (English summary) **2001c:46042**
**Georgiou, D. N.** On fuzzy function spaces. (English summary)
— (*with* Papadopoulos, Basil K.) Weakly continuous, weakly $\vartheta$-continuous, super-continuous and topologies on function spaces. (English summary)
**Guido, C.** (*with* Kočinac, Ljubiša D.) Relative covering properties. (English summary) **2001m:54020**
**Illman, Sören** (*with* Kankaanrinta, Marja) A new topology for the set $C^{\infty,G}(M,N)$ of $G$-equivariant smooth maps. **2001f:58024**
**Ivanov, Aleksandr Aleksandrovich** Bitopologies of products and ratios. (Russian. English and Russian summaries) **2001h:54056**
**Jäger, Gunther** Compactness in fuzzy function spaces. (English summary) **2001h:54009**
**Kąkol, Jerzy** Baire property and related concepts for spaces $C(X,E)$. **2001h:46057**
**Kalenda, Ondřej F. K.** Valdivia compacta and subspaces of $C(K)$ spaces. **2001c:46023**
**Kankaanrinta, Marja** *see* **Illman, Sören, 2001f:58024**
**Katsaras, A. K.** On the strict topology in non-Archimedean spaces of continuous functions. (English summary) **2001m:46166**
**Kiriakouli, P. Ch.** Classifications and characterizations of Baire-1 functions. (English summary) **2001d:54013**
— Characterizations of spreading models of $l^1$. (English summary) **2001e:46040**
**Kočinac, Ljubiša D.** *see* **Guido, C., 2001m:54020**
**Kohli, J. K.** (*with* Prasannan, A. R.) Fuzzy topologies on function spaces. (English summary)
— (*with* Prasannan, A. R.) Starplus-compactness and starplus-compact open fuzzy topologies on function spaces. (English summary) **2001k:54012**
**Krasinkiewicz, Józef** Path-lifting property for 0-dimensional confluent mappings. (English summary) **2001h:54020**
**Künzi, Hans-Peter A.** Quasi-uniform isomorphism groups. (*see* **2001f:54021**)
**Liu, Heng Xing** (*with* Luan, Jing Wen) A characterization of strongly topological function spaces and a sufficient condition for the product of two covariant topological spaces to be a covariant topological space. (Chinese. English and Chinese summaries)
**Luan, Jing Wen** *see* **Liu, Heng Xing**
**McCoy, Robert A.** Comparison of hyperspace and function space topologies. (*see* **2001f:54021**)
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**Meccariello, Enrico** *see* **Di Maio, Giuseppe, (2001f:54021)**
**Mizokami, Takemi** *see* **Shimane, Norihito, 2001f:54033** *and* **(2001g:54003)**
**Niefield, Susan** Exponentiable morphisms: posets, spaces, locales, and Grothendieck toposes. (English summary) **2001k:18007**
— *see also* **Bunge, Marta, 2001f:18020**
**Papadopoulos, Basil K.** *see* **Georgiou, D. N.**
**Pawlak, Helena** On the set $B_1^{**}$ in the space $B_1$ of functions. (English summary) **2001e:54028**
**Plebanek, G.** *see* **Frankiewicz, R. et al., 2001c:46042**
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**Pulgarín, Antonio A.** A characterization of $\overline{\mathcal{F}}_A(X)$ as a Fréchet $f$-algebra. (English summary) **2001h:46092**
**Rao, T. S. S. R. K.** Weakly continuous functions of Baire class 1. **2001h:54023**
**Raphael, Robert M.** (*with* Woods, R. Grant) The epimorphic hull of $C(X)$. (English summary) **2001c:54012**
**Repický, Miroslav** Spaces not distinguishing convergences. (English summary) **2001k:54006**
**Romaguera, Salvador** (*with* Schellekens, Michel) The quasi-metric of complexity convergence. (English summary) **2001m:54026**
**Ryll-Nardzewski, C.** *see* **Frankiewicz, R. et al., 2001c:46042**
**Sanchis, Manuel** (*with* Tamariz Mascarúa, Ángel) $p$-pseudocompactness and related topics in topological spaces. (English summary) **2001b:54030**
**Schellekens, Michel** *see* **Romaguera, Salvador, 2001m:54026**

**Seddighi, K.** (*with* Taghavi, Y.) Mappings on spaces of continuous functions. (English summary) **2001j:46072**
**Semënova, I. A.** Maximal congruences on a semifield of continuous positive functions. (Russian. English and Russian summaries) **2001k:54028**
— *see also* **Varankina, V. I. et al., 2001j:16065**
**Shakhmatov, Dmitriĭ B.** Selected results on convergence properties in topological spaces, topological groups and function spaces. (*see* **2001d:03007**)
**Shimane, Norihito** (*with* Mizokami, Takemi) On the embedding and developability of mapping spaces with compact open topology. (English summary) (*see* **2001g:54003**)
— (*with* Mizokami, Takemi) On stratifiability of mapping spaces. (English summary) **2001f:54033**
**Shkarin, Stanislav A.** An infinite-dimensional separable pre-Hilbert space that is not homeomorphic to a closed hyperplane of it. (Russian. Russian summary) **2001g:57040**
**Solecki, Sławomir** Filters and sequences. (English summary) **2001g:54006**
**Soundararajan, T.** *see* **Azarpanah, F.**
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**Tamariz Mascarúa, Ángel** $\alpha$-pseudocompactness in $C_p$-spaces. (English summary) **2001j:54025**
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**Troallic, Jean Pierre** Boundedness in $\mathscr{C}_p(X, Y)$ and equicontinuity. (English summary) **2001h:54022**
**Uspenskiĭ, Vladimir V.** A note on a question of R. Pol concerning light maps. (English summary) **2001a:54019**
**Varankina, V. I.** Maximal ideals in semirings of continuous functions. (Russian. English and Russian summaries)
— (*with* Vechtomov, E. M.; Semënova, I. A.) Semirings of continuous nonnegative functions: divisibility, ideals, congruences. (Russian. English and Russian summaries) **2001j:16065**
**Vechtomov, E. M.** *see* **Varankina, V. I. et al., 2001j:16065**
**Wiśnicki, Andrzej** *see* **Espínola, Rafael et al., 2001g:46026**
**Woods, R. Grant** *see* **Raphael, Robert M., 2001c:54012**
**Woźko, Jacek** *see* **Espínola, Rafael et al., 2001g:46026**
**Xiong, Hongyun** (*with* Zhang, Xinjun) A characterization of realcompact Stonian spaces $X$ and extended Riesz homomorphisms on $C^\infty(X)$. (English summary) **2001c:46102**
**Zakharov, Valeriĭ Konstantinovich** A relation between the classical ring of quotients of the ring of continuous functions and Riemann-integrable functions. (Russian. English and Russian summaries)
**Zhang, Xinjun** *see* **Xiong, Hongyun, 2001c:46102**

## 54C40 Algebraic properties of function spaces [see also 46J10]

**Azarpanah, F.** Algebraic properties of some compact spaces. (English summary) **2001a:54024**
— (*with* Soundararajan, T.) On functions vanishing at infinity to be an ideal in $C(X)$. (English summary)
— On almost $P$-spaces. (English summary) **2001b:54025**
**Semënova, I. A.** Maximal congruences on a semifield of continuous positive functions. (Russian. English and Russian summaries) **2001k:54028**
**Singh, Ajit Iqbal** (*with* Swardson, Mary Anne) Levels of quotient rings of rings of continuous functions. (English summary) **2001e:54032**
**Soundararajan, T.** *see* **Azarpanah, F.**
**Swardson, Mary Anne** *see* **Singh, Ajit Iqbal, 2001e:54032**

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**Buckley, James J.** (*with* Yan, Aimin) Fuzzy functional analysis. I. Basic concepts. (English summary) **2001g:46163**
**Di Concilio, Anna** (*with* Naimpally, Somashekhar Amrith) Function space topologies on (partial) maps. (*see* **2001f:54021**)
**Finn, Robert T.** (*with* Martinez, Jorge[2]) Global dimension of rings of functions. (English summary) **2001c:13022**
**Font, Juan J.** (*with* Sanchis, Manuel) An algebraic characterization of N-compactness. (English summary) **2001d:47046**
**Hager, Anthony W.** (*with* Martinez, Jorge[2]) Hulls for various kinds of $\alpha$-completeness in Archimedean lattice-ordered groups. (English summary) **2001a:06024**
**Jansen, Karl** Taming zero modes in lattice QCD with the polynomial hybrid Monte Carlo algorithm. (English summary) (*see* **2001d:65005**)
**Martínez, Jorge[2]** *see* **Hager, Anthony W., 2001a:06024** *and* **Finn, Robert T., 2001c:13022**
**Micchelli, Charles A.** (*with* Sauer, Thomas; Xu, Yuesheng) Subdivision schemes for iterated function systems. (English summary) **2001m:42063**
**Naimpally, Somashekhar Amrith** *see* **Di Concilio, Anna, (2001f:54021)**
**Pawlak, Ryszard Jerzy** On some class of functions intermediate between the class $B_1^*$ and the family of continuous functions. (English summary) **2001h:26004**
**Samei, K.** On the maximal spectrum of commutative semiprimitive rings. (English summary) **2001j:13003**
**Sanchis, Manuel** *see* **Font, Juan J., 2001d:47046**
**Sauer, Thomas** *see* **Micchelli, Charles A. et al., 2001m:42063**
**Xu, Yuesheng** *see* **Micchelli, Charles A. et al., 2001m:42063**
**Yan, Aimin** *see* **Buckley, James J., 2001g:46163**

## 54C45 $C$- and $C^*$-embedding

**Gutev, Valentin** (*with* Ohta, Haruto) Does $C^*$-embedding imply $C$-embedding in the realm of products with a non-discrete metric factor? (English summary) **2001j:54015**
**Ohta, Haruto** Extension properties and the Niemytzki plane. (English summary) **2001g:54017**
— *see also* **Gutev, Valentin, 2001j:54015**

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**Banakh, T. O.** AE(0)-spaces and regular operators extending (averaging) pseudometrics. (English summary)
**Henriksen, Melvin** (*with* Smith, F. A.) A look at biseparating maps from an algebraic point of view. (English summary) **2001d:54012**
**Smith, F. A.** *see* **Henriksen, Melvin, 2001d:54012**
**Yamazaki, Kaori** A cardinal generalization of $C^*$-embedding and its applications. (English summary) **2001k:54024**

## 54C50 Special sets defined by functions [see also 26A21]

**Maslyuchenko, V. K.** (*with* Mikhaĭlyuk, Vladimir Vasil'evich) Characterization of sets of discontinuity points of separately continuous functions of several variables on products of metrizable spaces. (Ukrainian. English and Ukrainian summaries) **2001m:54017**
**Mikhaĭlyuk, Vladimir Vasil'evich** *see* **Maslyuchenko, V. K., 2001m:54017**

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**Bhattacharya, Debasish[2]** *see* **Bhaumik, R. N., 2001c:54015**
**Bhaumik, R. N.** (*with* Bhattacharya, Debasish[2]) Regular $cb$-spaces. (English summary) **2001c:54015**
**Blasco, José L.** On the representation of function spaces as spaces of restrictions of continuous functions. (English summary) **2001g:54014**
**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) Bounded subsets and Grothendieck's theorem for bispaces. (English summary) **2001b:54037**
— (*with* Sanchis, Manuel; Watson, W. Stephen) Some remarks on the product of two $C_\alpha$-compact subsets. (English summary) **2001d:54004**
— (*with* Ohta, Haruto) $\alpha$-pseudocompact spaces and their subspaces. (English summary) **2001e:54044**
**Hernández García, Constancio** (*with* Robbie, Desmond A.; Tkachenko, Mikhail G.) Some properties of $o$-bounded and strictly $o$-bounded groups. (English summary) **2001g:22002**
**Kiriakouli, P. Ch.** Classifications and characterizations of Baire-1 functions. (English summary) **2001d:54013**
**Krasinkiewicz, Józef** On the fiber product of mappings into the unit interval. (English summary) **2001h:54021**
**Ohta, Haruto** *see* **García-Ferreira, Salvador, 2001e:54044**
**Pawlak, Helena** On the set $B_1^{**}$ in the space $B_1$ of functions. (English summary) **2001e:54028**
**Pytkeev, E. G.** On Baire bijection. (English summary) **2001e:54053**
**Robbie, Desmond A.** *see* **Hernández García, Constancio et al., 2001g:22002**
**Romaguera, Salvador** *see* **García-Ferreira, Salvador et al., 2001b:54037**
**Sanchis, Manuel** *see* **García-Ferreira, Salvador et al., 2001b:54037** *and* **2001d:54004**
**Tkachenko, Mikhail G.** *see* **Hernández García, Constancio et al., 2001g:22002**
**Watson, W. Stephen** *see* **García-Ferreira, Salvador et al., 2001d:54004**

## 54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [see also 55M15]

**Ageev, Sergei M.** (*with* Repovš, Dušan D.) A new construction of semi-free actions on Menger manifolds. (English summary) **2001h:54031**
**Antonyan, S. A.** (*with* Jiménez, Rolando; de Neymet, Sylvia) Fiberwise retraction and shape properties of the orbit space. (English summary) **2001k:54029**
**Banakh, T. O.** (*with* Trushchak, Kh. R.) $Z_n$-sets and the disjoint $n$-cells property in products of ANR's. (English and Russian summaries) **2001g:54018**
**Jiménez, Rolando** *see* **Antonyan, S. A. et al., 2001k:54029**
**de Neymet, Sylvia** *see* **Antonyan, S. A. et al., 2001k:54029**
**Radul, T.** Absorbing sets for countable-dimensional spaces. (English and Russian summaries) **2001g:54019**
**Repovš, Dušan D.** *see* **Ageev, Sergei M., 2001h:54031**
**Sakai, Katsuro** The completions of metric ANR's and uniform ANR's. (*see* **2001a:54001**)
**Smurov, M. V.** Functors and 1-soft mappings. (English summary) **2001e:54033**
**Trushchak, Kh. R.** *see* **Banakh, T. O., 2001g:54018**

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**Antonyan, S. A.** The topology of the Banach-Mazur compactum. (English summary) **2001k:57026**
**Banakh, T. O.** AE(0)-spaces and regular operators extending (averaging) pseudometrics. (English summary)
— (*with* Cauty, Robert) On universality of countable and weak products of sigma hereditarily disconnected spaces. (English summary) **2001m:54004**
**Bogatyĭ, Semen A.** *see* **Ageev, Sergei M. et al., 2001g:54012**
**Brodskiĭ, N. B.** On the extension of $UV^n$-valued mappings. (Russian. Russian summary) **2001d:54011**
**Bykov, A. I.** Fibrant extensions and conditions of movability. (English summary) **2001g:54020**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
**Chigogidze, Alex** Compact groups and absolute extensors. (English summary) **2001f:54040**
— On spaces Baire isomorphic to the powers of the real line. (English summary) **2001i:54030**
**Horvath, Charles D.** On the existence of constant selections. (English summary) **2001f:54024**
**Jiménez, Rolando** *see* **Ageev, Sergei M. et al., 2001g:54012**
**Karimov, U. Kh.** (*with* Repovš, Dušan D.) A noncontractible cell-like compactum whose suspension is contractible. (English summary) **2001k:55024**
**Khamsi, Mohamed A.** (*with* Nguyen, N. T.; Valdez-Sanchez, Luis) The AR-property in linear metric spaces. (English summary) **2001m:54028**
**Mardešić, Sibe** Extension dimension of inverse limits. (English summary) **2001i:54038**
**Nguyen, N. T.** *see* **Khamsi, Mohamed A. et al., 2001m:54028**
**Nguyen Nhuy** (*with* Pham Quang Trinh) Some properties of shape metric. (English summary) **2001i:54026**

**Pham Quang Trinh** *see* **Nguyen Nhuy, 2001i:54026**
**Repovš, Dušan D.** *see* **Karimov, U. Kh., 2001k:55024**
**Sakai, Katsuro** The completions of metric ANR's and homotopy dense subsets. (English summary) **2001f:57025**
**Semenov, Pavel V.** On the Lebesgue function of open coverings. (English summary) **2001f:54022**
**Uglešić, Nikica** Iterated resolutions. (English summary) **2001k:54019**
**Valdez-Sanchez, Luis** *see* **Khamsi, Mohamed A. et al., 2001m:54028**
**Yamazaki, Kaori** A cardinal generalization of $C^*$-embedding and its applications. (English summary) **2001k:54024**
**Zarichnyĭ, M. M.** Extension property and ANR-systems. (English summary) **2001e:54025**

## 54C56 Shape theory [see also 55P55, 57N25]

**Bykov, A. I.** Fibrant extensions and conditions of movability. (English summary) **2001g:54020**
**Iwamoto, Yutaka** (*with* Sakai, Katsuro) Strong $n$-shape theory. (*see* **2001a:54001**)
**Jiménez, Rolando** (*with* de Neymet, Sylvia) Union of equivariant extensors and equivariant covering spaces. (English summary) **2001i:54015**
— The Menger space as a majorant. (English summary) **2001h:54032**
**de Neymet, Sylvia** *see* **Jiménez, Rolando, 2001i:54015**
**Sakai, Katsuro** *see* **Iwamoto, Yutaka, (2001a:54001)**
**Sanjuán Gonzalez, Julio César** On Moore spaces in shape theory. (English summary) (*see* **2001d:00037**)

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**Antonyan, S. A.** (*with* Jiménez, Rolando; de Neymet, Sylvia) Fiberwise retraction and shape properties of the orbit space. (English summary) **2001k:54029**
**Ivanšić, Ivan** (*with* Rubin, Leonard R.; Schapiro, Philip J.) Extension shape theory. (English summary) **2001d:55005**
**Jiménez, Rolando** *see* **Antonyan, S. A. et al., 2001k:54029**
**Koyama, Akira** Recent topics in geometric topology. (Japanese. Japanese summary) (*see* **2001m:54001**)
**Mardešić, Sibe** ★ Strong shape and homology. (English summary) **2001e:55006**
**Miyata, Takahisa** On shape theory and its applications. (*see* **2001m:54001**)
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**Nguyen Nhuy** (*with* Pham Quang Trinh) Some properties of shape metric. (English summary) **2001i:54026**
**Pham Quang Trinh** *see* **Nguyen Nhuy, 2001i:54026**
**Rubin, Leonard R.** *see* **Ivanšić, Ivan et al., 2001d:55005**
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## 54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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**Birsan, T.** Multifunctions and uniformity of metric spaces.
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**Del Prete, I.** (*with* Di Iorio, M.; Holá, Ľubica) Graph convergence of set-valued maps and its relationship to other convergences. (English summary) **2001k:54030**
**Di Iorio, M.** *see* **Del Prete, I. et al., 2001k:54030**
**Gao, Zhi Min** (*with* Yasui, Yoshikazu) The continuity on pattern recognitions. (English summary)
**Holá, Ľubica** *see* **Del Prete, I. et al., 2001k:54030**
**Kubiś, Beata** (*with* Kubiś, Wiesław) Fréchet type theorem and its applications to multifunctions. (English summary) **2001b:54026**
**Kubiś, Wiesław** *see* **Kubiś, Beata, 2001b:54026**
**Küçük, Yalçın** *see* **Zorlutuna, İdris**
**Kwiecińska, Grazyna** Measurability and approximate continuity of multivalued functions. (English summary) (*see* **2001d:00019**)
**Noiri, Takashi** *see* **Popa, Valeriu**
**Ostrovskiĭ, A. V.** Set-valued stable maps. (English summary) **2001e:54035**
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— (*with* Noiri, Takashi) On $s$-precontinuous multifunctions. (English summary)
— (*with* Noiri, Takashi) On $S-\beta$-continuous multifunctions. (English summary)
**Semenov, Pavel V.** On the Lebesgue function of open coverings. (English summary) **2001f:54022**
**Shishkov, Ivailo** Hereditarily normal Katětov spaces and extending of usco mappings. (English summary) **2001d:54017**
**Xiang, Shu Wen** On the problem of continuous selections for upper semicontinuous maps. (Chinese. English and Chinese summaries) **2001e:54036**
**Yasui, Yoshikazu** *see* **Gao, Zhi Min**
**Yuan, George Xian-Zhi** The characterization of generalized metric KKM mappings with open values in hyperconvex metric spaces and some applications. (English summary) **2001d:54018**
**Zaytsev, Oleg** On discontinuous mappings in metric spaces. (English and Latvian summaries) **2001f:54023**
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— (*with* Gabor, Grzegorz; Górniewicz, Lech) Topological structure of solution sets to multi-valued asymptotic problems. (English summary) **2001b:34023**
**Beg, Ismat** Fuzzy closed graph fuzzy multifunctions. (English summary)
**Ben-El-Mechaiekh, Hichem** (*with* Idzik, Adam) Ky Fan type coincidence theorems. I. (English summary)
— Fixed points for set-valued maps: a topological perspective. **2001c:54033**
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**Burdick, Bruce S.** Characterizations of hyperspaces of bitopological spaces. (English summary) **2001i:54009**
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**Chentsov, A. G.** Nonanticipating selectors of set-valued mappings and iterated procedures. (English summary) **2001k:49080**
**Cho, Myung Hyun** Continuous selections under weaker separation axioms and reflexive Banach spaces. (English summary) **2001a:54026**
**Cho, Yeol Je** *see* **Jung, Jong Soo et al.**
**Choi, Yong-Kab** *see* **Jung, Jong Soo et al.**
**Das, Sakti** *see* **Som, Tanmoy**
**Del Prete, I.** (*with* Di Iorio, M.; Naimpally, Somashekhar Amrith) Essential fixed points of functions and multifunctions. (English summary) **2001b:54052**
**Dentcheva, Darinka** Regular Castaing representations of multifunctions with applications to stochastic programming. (English summary) **2001i:90048**
**Di Iorio, M.** *see* **Del Prete, I. et al., 2001b:54052**
**Do Hong Tan** *see* **Park, Sehie, 2001m:47117**
**Drozdovskiĭ, S. A.** (*with* Filippov, V. V.) A selection theorem for a new class of multivalued mappings. (Russian. Russian summary) **2001h:54033**
**Edwards, Terrence** On function spaces with the compact-open topology. (English summary) **2001f:54017**
**Ewert, Janina** Semilocal connectedness of product spaces and $s$-continuity of maps. (English summary) **2001j:54016**
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**Filippov, V. V.** *see* **Drozdovskiĭ, S. A., 2001h:54033**
**Fryszkowski, Andrzej** (*with* Górniewicz, Lech) Mixed semicontinuous mappings and their applications to differential inclusions. (English summary) **2001i:34015**
**Gabor, Grzegorz** On the acyclicity of fixed point sets of multivalued maps. (English summary) **2001g:54047**
— *see also* **Andres, Ján et al., 2001b:34023**
**Gel'man, Boris D.** *see* **Benkadar, Nasreddine M.**
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— (*with* Horvath, Charles D.) Toward a geometric theory of minimax equalities. (English summary) **2001d:49012**
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**Horvath, Charles D.** *see* **Greco, Gabriele H., 2001a:49025** *and* **2001d:49012**
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**Jeong, Jae Ug** *see* **Park, Jong Yeoul, 2001e:45001**
**Jeong, Kwang Sik** *see* **Park, Sehie, 2001c:47058**
**Jezierski, Jerzy** *see* **Andres, Ján et al., 2001a:55001** *and* **2001m:55005**
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**Jiang, Guo-Jing** On characterization of metric completeness. (English summary)
**Jiang, Li Zhi** (*with* Zhang, Qing Nian; Li, Li Xia; Jia, Li Xin) The Egorov theorem for measurable set-valued mappings. (Chinese. English and Chinese summaries)
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**Jung, Jong Soo** (*with* Cho, Yeol Je; Kang, Shin Min; Lee, Byung Soo; Choi, Yong-Kab) Coincidence point theorems in generating spaces of quasi-metric family. (English summary)
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**Kim, Hoonjoo** *see* **Park, Sehie, 2001i:54049**
**Kim, In-Sook** (*with* Park, Sehie) Saddle point theorems on generalized convex spaces. (English summary) **2001e:49012**
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**Matkowski, Janusz** (*with* Nikodem, Kazimierz) Convex set-valued functions on $(0,\infty)$ and their conjugate. (English summary) **2001k:26014**

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**Moţ, Ghiocel** General convexity structures and multivalued mappings. (English summary) (*see* **2001k:00021a**)
**Murthy, P. P.** *see* **Singh, Maibam Ranjit et al., 2001k:54070**
**Naimpally, Somashekhar Amrith** *see* **Del Prete, I. et al., 2001b:54052**
**Nikodem, Kazimierz** *see* **Matkowski, Janusz, 2001k:26014**
**O'Regan, Donal** Homotopy and epi maps. (English summary) **2001a:47070**
– Continuation theorems for set valued maps in topological vector spaces. (English summary) **2001c:47057**
**Park, Jong Yeoul** (*with* Jeong, Jae Ug) On the existence and uniqueness of solutions of fuzzy Volterra-Fredholm integral equations. (English summary) **2001e:45001**
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– (*with* Jeong, Kwang Sik) The Leray-Schauder principles for condensing approximable and other multimaps. (English summary) **2001c:47058**
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– Fixed points of better admissible maps on generalized convex spaces. (English summary) **2001i:54050**
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**Peng, Jian Wen** $\epsilon$-weak efficient solutions of vector optimization problems with set-valued maps. (Chinese. English and Chinese summaries)
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**Reich, Simeon** (*with* Zaslavski, Alexander J.) Infinite products of resolvents of accretive operators. (English summary) **2001k:47077**
**Sakai, Katsuro** (*with* Uehara, Shigenori) Spaces of upper semi-continuous multi-valued functions on separable metric spaces. (English summary) **2001k:57028**
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**Saveľev, P. N.** Fixed points and selections of set-valued maps on spaces with convexity. (English summary) **2001h:47097**
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**Wang, Xiao Min[1]** $H_\alpha$-subdifferential and its existence for set-valued functions. (Chinese. English and Chinese summaries)
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**Wu, Cong Xin** (*with* Gong, Zeng Tai) On Henstock integrals of interval-valued functions and fuzzy-valued functions. (English summary) **2001e:26017**
**Wu, Jian Rong[2]** Random fixed point theorems for set-valued functions. (Chinese. English and Chinese summaries)
**Xiang, Shu Wen** (*with* Yang, Hui) The graph topology of set-valued mappings and the generic stability of fixed points. (Chinese. English and Chinese summaries)
**Xu, Hong-Kun** Metric fixed point theory for multivalued mappings. (English summary) **2001m:47108**
**Yan, Jing Xian** A couple fixed point theorem for semi-compact multivalued nonexpansive mappings. (Chinese. English and Chinese summaries)
**Yang, Hong Qiang** *see* **Li, Jin Shan**
**Yang, Hui** *see* **Xiang, Shu Wen**
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## 54C65 Selections [see also 28B20]

**Artico, G.** (*with* Marconi, Umberto; Moresco, R.; Pelant, Jan) Selectors and scattered spaces. (English summary) **2001k:54031**
**Belov, Sergei A.** (*with* Chistyakov, V. V.) A selection principle for mappings of bounded variation. (English summary) **2001e:54037**
**Cauty, Robert** Sur les sélections continues des collections d'arcs. (English summary) [On continuous selections of collections of arcs] **2001a:54025**
**Chistyakov, V. V.** *see* **Belov, Sergei A., 2001e:54037**
**Cho, Myung Hyun** Continuous selections under weaker separation axioms and reflexive Banach spaces. (English summary) **2001a:54026**
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– Theorems on the continuation of upper semicontinuous selections and of selections close to them of lower semicontinuous multivalued mappings. (Russian. Russian summary) **2001d:54019**
**Filippov, V. V.** *see* **Drozdovskiĭ, S. A., 2001h:54033**
**Gutev, Valentin** Generic extensions of finite-valued u.s.c. selections. (English summary) **2001e:54038**
**Horvath, Charles D.** On the existence of constant selections. (English summary) **2001f:54024**
**Huang, Fa-lun** *see* **Li, Hong-Xu, 2001i:54016**
**Jordan, Francis** (*with* Nadler, Sam B., Jr.) A result about a selection problem of Michael. (English summary) **2001g:54021**
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**Kucia, Anna** (*with* Nowak, Andrzej S.) Approximate Carathéodory selections. (English summary) **2001h:54034**
**Li, Hong-Xu** (*with* Huang, Fa-lun) Continuous selections for multivalued mappings with closed convex images and applications. (English summary) **2001i:54016**
**Malešič, Jože** Continuous selections of multivalued mappings. (Slovenian. English and Slovenian summaries) **2001h:54035**
**Marconi, Umberto** *see* **Artico, G. et al., 2001k:54031**
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**Nguyễn Hồng Thái** (*with* Juniewicz, Maciej; Ziemińska, J.) CM-selectors for pairs of oppositely semicontinuous multifunctions and some applications to strongly nonlinear inclusions. (English summary) **2001g:54022**
**Nikodem, Kazimierz** (*with* Páles, Zsolt; Wąsowicz, Szymon) Multifunctions with selections of convex and concave type. (English summary) **2001h:54036**
**Nogura, Tsugunori** Vietoris continuous selections on scattered spaces. (*see* **2001d:03007**)
**Nowak, Andrzej S.** *see* **Kucia, Anna, 2001h:54034**
**Páles, Zsolt** *see* **Nikodem, Kazimierz et al., 2001h:54036**
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**Pillot, Michel** Tri-quotient maps become inductively perfect with the aid of consonance and continuous selections. (English summary) **2001e:54039**
**Semenov, Pavel V.** (*with* Shchepin, E. V.) Selection approach to multivalued separation theorems. (English summary) **2001a:54027**
**Shahzad, Naseer** Remarks on the extension of random contractions.
**Shchepin, E. V.** *see* **Semenov, Pavel V., 2001a:54027**
**Shishkov, Ivailo** Selections of lower semi-continuous mappings into Hilbert spaces. **2001e:54040**
**Wąsowicz, Szymon** *see* **Nikodem, Kazimierz et al., 2001h:54036**
**Ziemińska, J.** *see* **Nguyễn Hồng Thái et al., 2001g:54022**

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**Badora, Roman** (*with* Páles, Zsolt; Székelyhidi, László) Monomial selections of set-valued maps. (English summary) **2001a:39062**
**Balaj, Mircea** (*with* Nikodem, Kazimierz) Remarks on Bárány's theorem and affine selections. (English summary) **2001g:52011**
– Intersection results, fixed point theorems and minimax inequalities in $H$-spaces. (English summary) **2001c:49010**
**Brodskiĭ, N. B.** On the extension of $UV^n$-valued mappings. (Russian. Russian summary) **2001d:54011**
**Calbrix, Jean** *see* **Alleche, Boualem, 2001e:54034**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.; Krupski, Paweł) Dendrites and light open mappings. (English summary) **2001c:54027**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J. et al., 2001c:54027**
**Chentsov, A. G.** Nonanticipating selectors of set-valued mappings and iterated procedures. (English summary) **2001k:49080**
**Chistyakov, V. V.** Mappings of bounded variation with values in a metric space: generalizations. **2001k:26012**
**Cho, Yeol Je** *see* **Zhang, Shi Sheng et al., 2001e:91119**
**Dentcheva, Darinka** Regular Castaing representations of multifunctions with applications to stochastic programming. (English summary) **2001i:90048**
**Finzel, M.** (*with* Li, Wu[3]) Piecewise affine selections for piecewise polyhedral multifunctions and metric projections. (English summary) **2001h:90090**
**Fryszkowski, Andrzej** (*with* Górniewicz, Lech) Mixed semicontinuous mappings and their applications to differential inclusions. (English summary) **2001i:34015**
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**Khamsi, Mohamed A.** (*with* Kirk, W. A.; Martinez Yañez, Carlos) Fixed point and selection theorems in hyperconvex spaces. (English summary) **2001g:54048**
**Kim, Jong Kyu** *see* **Zhang, Shi Sheng et al., 2001e:91119**
**Kirk, W. A.** *see* **Khamsi, Mohamed A. et al., 2001g:54048**
**Krupski, Paweł** *see* **Charatonik, Janusz J. et al., 2001c:54027**
**Li, Lei** (*with* Wu, Cong Xin) A discussion of Aubin and Frankowska's theorem on the minimum selection of closed convex set-valued mappings. (Chinese. English and Chinese summaries) **2001h:49028**
**Li, Wu[3]** *see* **Finzel, M., 2001h:90090**
**Martinez Yañez, Carlos** *see* **Khamsi, Mohamed A. et al., 2001g:54048**
**Nikodem, Kazimierz** *see* **Balaj, Mircea, 2001g:52011**
**Páles, Zsolt** *see* **Badora, Roman et al., 2001a:39062**
**Park, Sehie** (*with* Sims, Brailey) Remarks on fixed point theorems in hyperconvex spaces. (English summary) **2001m:47110**
**Sambucini, Anna Rita** Remarks on set valued integrals of multifunctions with non-empty bounded closed and convex values. (English summary)
**Scarparo, Renato César** Fuzzy selections. (Spanish. English and Spanish summaries)
**Scheepers, Marion** Combinatorics of open covers. VI. Selectors for sequences of dense sets. (English summary) **2001j:91031**

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**Semenov, Pavel V.** Nonconvexity in problems of multivalued calculus. **2001h:90117**
**Shishkov, Ivailo** Hereditarily normal Katětov spaces and extending of usco mappings. (English summary) **2001d:54017**
**Sims, Brailey** *see* **Park, Sehie, 2001m:47110**
**Szczawińska, Joanna** On extension and continuity of $p$-additive functions. (English summary) **2001f:26040**
**Székelyhidi, László** *see* **Badora, Roman et al., 2001a:39062**
**Tolstonogov, A. A.** $L_p$-continuous selectors of fixed points of multivalued mappings with decomposable values. I. Existence theorems. (Russian. Russian summary) **2001i:47082**
— $L_p$-continuous selectors of fixed points of multivalued mappings with decomposable values. II. Relaxation theorems. (Russian. Russian summary) **2001i:47083**
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**Wu, Cong Xin** *see* **Li, Lei, 2001h:49028**
**Xiang, Shu Wen** On the problem of continuous selections for upper semicontinuous maps. (Chinese. English and Chinese summaries) **2001e:54036**
**Zhang, Shi Sheng** (*with* Cho, Yeol Je; Kim, Jong Kyu) Selection problem with applications. (English summary) **2001e:91119**

## 54C70 Entropy

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**Alsedà, Lluís** (*with* Mañosas, Francesc; Mumbrú, P.) Minimizing topological entropy for continuous maps on graphs. (English summary) **2001k:37023**
**Arai, Tatsuya** (*with* Chinen, Naotsugu; Kato, Hisao; Park, Jong-Jin; Yokoi, Katsuya) The dynamics of homeomorphisms of hereditarily decomposable $\theta^*$-continua. (English summary) **2001g:54043**
— (*with* Chinen, Naotsugu; Kato, Hisao; Yokoi, Katsuya) The construction of $P$-expansive maps of regular continua: a geometric approach. (English summary) **2001h:37082**
**Balibrea Gallego, Francisco** (*with* Cánovas Peña, José Salvador; Jiménez López, Víctor) Commutativity and non-commutativity of topological sequence entropy. (English and French summaries) **2001g:37015**
**Cánovas Peña, José Salvador** An interval counterexample on topological sequence entropy. (English summary) **2001m:37034**
— *see also* **Balibrea Gallego, Francisco et al., 2001g:37015**
**Chinen, Naotsugu** *see* **Arai, Tatsuya et al., 2001g:54043** *and* **2001h:37082**
**Du, Feng Zhi** (*with* Wang, Li Juan) Invariant probability measures of scramble sets. (Chinese. English and Chinese summaries) **2001j:37019**
**Jiménez López, Víctor** *see* **Balibrea Gallego, Francisco et al., 2001g:37015**
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**Kolyada, S. F.** (*with* Misiurewicz, Michał; Snoha, Ľubomír) Topological entropy of nonautonomous piecewise monotone dynamical systems on the interval. (English summary) **2001g:37017**
**Li, Qing Yu** A note on topological entropy of continuous transformations. (Chinese. English and Chinese summaries)
**Li, Wenbo V.** (*with* Linde, Werner) Metric entropy of convex hulls in Hilbert spaces. (English summary) **2001h:60063**
**Linde, Werner** *see* **Li, Wenbo V., 2001h:60063**
**Lu, Jian-ping** *see* **Wang, Huo-yun, 2001j:37034**
**Lü, Jie[3]** (*with* Xiong, Jincheng; Ye, Xiang Dong[1]) An equivalent condition for continuous maps of a class of continua to have zero topological entropy. (English summary) **2001e:37022**
**Mañosas, Francesc** *see* **Alsedà, Lluís et al., 2001k:37023**
**Matsumoto, Kengo** A simple $C^*$-algebra arising from a certain subshift. (English summary) **2001c:46118**
**Misiurewicz, Michał** *see* **Kolyada, S. F. et al., 2001g:37017**
**Mumbrú, P.** *see* **Alsedà, Lluís et al., 2001k:37023**
**Niu, Ying Xuan** (*with* Ye, Xiang Dong[1]) On some questions of Barge and Toledo. (English summary) **2001i:54036**
**Park, Jong-Jin** *see* **Arai, Tatsuya et al., 2001g:54043**
**Schmeling, Jörg** Time weighted entropies. (English summary) **2001g:37018**
**Silver, Daniel S.** (*with* Williams, Susan G.) Coloring link diagrams with a continuous palette. (English summary) **2001m:57017**
**Snoha, Ľubomír** *see* **Kolyada, S. F. et al., 2001g:37017**
**Steele, T. H.** The set of continuous functions with zero topological entropy. (English summary) **2001d:37044**
**Tagi-zade, A. T.** Topological entropy provides an upper bound on metric entropy for actions of locally compact unimodular amenable groups. (Russian. English and Azerbaijani summaries)
**Wang, Huo-yun** (*with* Lu, Jian-ping) The Hausdorff measure theoretic entropy of a subshift in symbolic space. (English summary) **2001j:37034**
**Wang, Li Juan** *see* **Du, Feng Zhi, 2001j:37019**
**Williams, Susan G.** *see* **Silver, Daniel S., 2001m:57017**
**Xia, Da Feng** (*with* Xu, Sen Lin) A lower bound for the topological entropy of coordinate self-maps on a $k$-dimension torus. (Chinese. English and Chinese summaries) **2001j:37035**
**Xiong, Jincheng** *see* **Lü, Jie[3] et al., 2001e:37022**
**Xu, Sen Lin** *see* **Xia, Da Feng, 2001j:37035**
**Ye, Xiang Dong[1]** Non-wandering points and the depth of a graph map. (English summary) **2001k:37059**
— *see also* **Lü, Jie[3] et al., 2001e:37022** *and* **Niu, Ying Xuan, 2001i:54036**
**Yi, Jian Xin** (*with* Zhi, Jian Wei) Estimation of upper bounds on the topological entropy for a class of Lipschitz maps. (Chinese. English and Chinese summaries) **2001b:37018**
**Yokoi, Katsuya** *see* **Arai, Tatsuya et al., 2001g:54043** *and* **2001h:37082**
**Zhi, Jian Wei** *see* **Yi, Jian Xin, 2001b:37018**

## 54C99 None of the above, but in this section

**Babinkostova, Liljana** Some topological properties of rotatable images. (Russian. Russian and Macedonian summaries)
**Jiang, Shou Li** *see* **Li, Jin Jin**
**Li, Jin Jin** (*with* Jiang, Shou Li) On sequence-covering strong $s$-mappings. (English summary)
**Lin, Pei Rong** A note on a paper "The generalizations of Dini theorem". (Chinese. English and Chinese summaries)
**Mihail, Alexandru** A topological version of the approximation of functions by averaging. (Romanian. Romanian summary)

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**Beckenstein, Edward** (*with* Narici, Lawrence) Subadditive separating maps. (English summary) **2001k:46040**
**Blanck, Jens** Domain representations of topological spaces. (English summary) **2001e:54012**
**Debs, Gabriel** (*with* Saint Raymond, Jean) Compact covering mappings between Borel spaces. **2001b:54045**
**Džamonja, Mirna** On uniform Eberlein compacta and $c$-algebras. (English summary) **2001f:06024**
**Fora, Ali Ahmad** New and old types of homogeneity. (English summary)
**Mahmoud, R. A.** Between SMPC-functions and submaximal spaces. (English summary)
**Naimpally, Somashekhar Amrith** A new uniform convergence for partial functions. (English summary) (*see* **2001h:54003**)
**Narici, Lawrence** *see* **Beckenstein, Edward, 2001k:46040**
**Sabogal, Sonia M.** An extension of the Stone duality. (English summary) **2001h:06018**
**Saint Raymond, Jean** *see* **Debs, Gabriel, 2001b:54045**
**Syau, Yu-Ru** Invex and generalized convex fuzzy mappings. (English summary) **2001f:54004**

# 54Dxx Fairly general properties

## 54D05 Connected and locally connected spaces (general aspects)

**Baboolal, D.** Local connectedness made uniform. (English summary) **2001d:54020**
**Bandyopadhyay, Chhanda** *see* **Garai, Biswanath**
**Ewert, Janina** Semilocal connectedness of product spaces and $s$-continuity of maps. (English summary) **2001j:54016**
**Fedeli, Alessandro** (*with* Le Donne, Attilio) On subconnected spaces. (English summary) **2001a:54028**
— (*with* Le Donne, Attilio) $\omega$-connectifications and product spaces. (English summary) **2001g:54023**
— (*with* Le Donne, Attilio) The Sorgenfrey line has a locally pathwise connected connectification. (English summary) **2001c:54014**
**Garai, Biswanath** (*with* Bandyopadhyay, Chhanda) Nowhere dense sets and hyperconnected $s$-topological spaces. (English summary)
**Le Donne, Attilio** *see* **Fedeli, Alessandro, 2001a:54028; 2001c:54014** *and* **2001g:54023**

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**Baboolal, D.** *see* **Naidoo, I. et al., 2001m:06018**
**Baik, B. S.** (*with* Hur, K.; Lee, Seung Woo; Rhee, C. J.) Hemicompactness and hemiconnectedness of hyperspaces. (English summary) **2001a:54010**
**Balasubramanian, G.** Pre-connectedness and pre-disconnectedness in fuzzy topological spaces. (English summary)
— *see also* **Santhileela, D.**
**Banakh, T. O.** (*with* Cauty, Robert) On universality of countable and weak products of sigma hereditarily disconnected spaces. (English summary) **2001m:54004**
**Bankston, Paul** Some applications of the ultrapower theorem to the theory of compacta. (English summary) **2001f:54011**
**Cao, Shangmin** Regular closed Boolean algebra in space with one point Lindelöffication topology. (English summary) **2001i:54019**
**Castellini, G.** Connectedness classes. (English summary) **2001k:18002**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
**Chakraborty, R. P.** *see* **Mukherjee, M. N.**
**Çoker, Doğan** *see* **Turanli, Necla**
**Farley, Jonathan David** Coproducts of bounded distributive lattices: cancellation. A problem from the 1981 Banff Conference on Ordered Sets. (English summary) **2001m:06020**
**Fedorchuk, V. V.** (*with* van Mill, Jan) Dimensionsgrad for locally connected Polish spaces. (English summary) **2001a:54045**
**Hur, K.** *see* **Baik, B. S. et al., 2001a:54010**
**Jordan, Francis** (*with* Nadler, Sam B., Jr.) A result about a selection problem of Michael. (English summary) **2001g:54021**
**Jungck, Gerald F.** (*with* Timm, Mathew) $H$-connected inverse limit spaces. (English summary) **2001j:54010**
**Karimov, U. Kh.** (*with* Repovš, Dušan D.) A noncontractible cell-like compactum whose suspension is contractible. (English summary) **2001k:55024**
**Latif, Raja Mohammad** Semi-open sets in locally connected and locally pathwise connected metric spaces. (English summary) **2001e:54014**
**Lee, Seung Woo** *see* **Baik, B. S. et al., 2001a:54010**
**Li, Sheng-Gang** Connectedness in $L$-fuzzy topological spaces. (English summary)
**Makuchowski, Władysław** On local $n$-connectedness in hyperspaces. (English summary) **2001f:54008**
**van Mill, Jan** *see* **Fedorchuk, V. V., 2001a:54045**
**Mukherjee, M. N.** (*with* Chakraborty, R. P.) Fuzzy connectedness: a unified approach. (English summary)
**Nadler, Sam B., Jr.** *see* **Jordan, Francis, 2001g:54021**

Naidoo, I. (*with* Baboolal, D.; Ori, Ramesh G.) Metacompact nearness frames. (English summary) **2001m:06018**
Ori, Ramesh G. *see* Naidoo, I. et al., **2001m:06018**
Pol, Elżbieta (*with* Pol, Roman) A few remarks on connected sets in hyperspaces of hereditarily disconnected spaces. (English summary) **2001i:54010**
Pol, Roman *see* Pol, Elżbieta, **2001i:54010**
Preuß, Gerhard Some algebraically topological aspects in the realm of convenient topology. (English summary) **2001j:54001**
Repovš, Dušan D. *see* Karimov, U. Kh., **2001k:55024**
Rhee, C. J. *see* Baik, B. S. et al., **2001a:54010**
Saleh, Mohammad A. On almost strong $\theta$-continuity. (English summary)
Sampath Kumar, S. Connectedness in fuzzy bitopological spaces. II. (English summary)
Santhileela, D. (*with* Balasubramanian, G.) Basic disconnectedness in bitopological spaces. (English summary)
Song, Chun Ling *see* Xie, Lin[1]
Timm, Mathew *see* Jungck, Gerald F., **2001j:54010**
Turanli, Necla (*with* Çoker, Doğan) Fuzzy connectedness in intuitionistic fuzzy topological spaces. (English summary)
Wang, Xiu Ying *see* Zhang, Jie[3]
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Zhang, Jie[3] (*with* Wang, Xiu Ying) $O_s$-connectedness on $L$-fuzzy topological spaces. (Chinese. English and Chinese summaries)
Zhao, Jia Yin Fanji theorem on $O$-connectedness. (Chinese. English and Chinese summaries)

## 54D10 Lower separation axioms ($T_0$–$T_3$, etc.)

Caldas Cueva, Miguel (*with* Jafari, Saeid) Sober regular spaces. (English summary)
Chen, Xiang Ping[2] $T_3$ and $T_4$ Fréchet ($V$) spaces. (Chinese. English and Chinese summaries) **2001a:54029**
Choban, M. M. *see* Kalmutskiĭ, L. I., **2001g:54024**
Dontchev, Julian (*with* Ganster, Maximilian; Kennedy, G. J.; McCartan, S. D.) On minimal door, minimal anti-compact and minimal $T_{3/4}$ spaces. (English summary) **2001a:54030**
Ganster, Maximilian *see* Dontchev, Julian et al., **2001a:54030**
Jafari, Saeid A note on weakly pre-$R_0$ spaces. (English summary)
— *see also* Caldas Cueva, Miguel
Kalmutskiĭ, L. I. (*with* Choban, M. M.) On universal properties. (English summary) **2001g:54024**
Kennedy, G. J. *see* Dontchev, Julian et al., **2001a:54030**
McCartan, S. D. *see* Dontchev, Julian et al., **2001a:54030**
Pultr, A. (*with* Tozzi, A.) A note on reconstruction of spaces and maps from lattice data. (English summary) **2001m:54018**
Sünderhauf, Philipp Sobriety in terms of nets. (English summary) **2001j:54017**
Tozzi, A. *see* Pultr, A., **2001m:54018**

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Aoki, Katuhiko *see* Chae, Gyu-Ihn et al.
Baker, C. W. *see* Caldas Cueva, Miguel, **2001i:54012**
Balachandran, Krishnan *see* Maki, H. et al., **2001e:54002**
Bonanzinga, M. (*with* Cammaroto, Filippo[1]; Matveev, Mikhail Valer′evich) Partial discretization of topologies. (Italian summary) **2001j:54002**
Caldas Cueva, Miguel On maps and generalized $\Lambda_s$-sets. (English summary)
— (*with* Baker, C. W.) Contra pre semi-open maps. (English summary) **2001i:54012**
— More on generalized homeomorphisms in topological spaces. (English and Spanish summaries)
— (*with* Jafari, Saeid) Some properties of contra-$\beta$-continuous functions. (English summary)
Cammaroto, Filippo[1] *see* Bonanzinga, M. et al., **2001j:54002**
Carpintero, Carlos (*with* Rosas, Ennis) Arbitrary intersection of a family of open subsets with the $\alpha$-s-locally finite property is $\alpha$-semi-open. (Spanish. English and Spanish summaries)
Chae, Gyu-Ihn (*with* Maki, H.; Aoki, Katuhiko; Mizuta, Yoshihito) More on quasi semi-open sets.
David, Elias Scott spaces and sober spaces. (English summary) **2001b:54039**
Devi, Ramasamy *see* Maki, H. et al., **2001e:54002**
Gryzlov, A. A. Independent matrices and some points of $\beta\tau$. (English summary) **2001e:54049**
Gupta, M. K. *see* Lal, Sunder
Herrlich, Horst (*with* Pultr, A.) Nearness, subfitness and sequential regularity. (English summary) **2001f:54002**
Iliadis, Stavros A construction of containing spaces. (English summary) **2001e:54018**
Jafari, Saeid (*with* Noiri, Takashi) On strongly semi-regular spaces. (English summary)
— *see also* Caldas Cueva, Miguel
Kim, Yong Chan[2] (*with* Lee, Seok Jong) Some properties of r-$T_0$ and r-$T_1$ spaces. (English summary)
Kovačević, Ilija Some properties of subsets, almost closed mappings and paracompactness. (English summary) **2001k:54023**
Lal, Sunder (*with* Gupta, M. K.) On some separation properties on bitopological spaces. (English summary)
Lee, Seok Jong *see* Kim, Yong Chan[2]
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Maki, H. (*with* Ogata, Hayao; Balachandran, Krishnan; Sundaram, Palaniappan; Devi, Ramasamy) The digital line and operation approaches of $T_{1/2}$-spaces. (English summary) **2001e:54002**
— *see also* Chae, Gyu-Ihn et al.
Matveev, Mikhail Valer′evich *see* Bonanzinga, M. et al., **2001j:54002**
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Mortensen, Chris Topological separation principles and logical theories. (English summary) **2001j:03050**
Noiri, Takashi *see* Jafari, Saeid
Ogata, Hayao *see* Maki, H. et al., **2001e:54002**
Pachón Rubiano, Néstor Raúl On compact spaces and $T_0$. (Spanish. Spanish summary)
Pultr, A. *see* Herrlich, Horst, **2001f:54002**
Pushpalatha, A. *see* Sundaram, Palaniappan
Rosas, Ennis *see* Carpintero, Carlos
Santhi, R. *see* Sundaram, Palaniappan
Sundaram, Palaniappan (*with* Pushpalatha, A.) Strongly generalized closed sets in topological spaces. (English summary)
— (*with* Santhi, R.) Strongly generalized semi-preclosed sets and strongly semipre-$T_{1/2}$ space. (English summary)
— *see also* Maki, H. et al., **2001e:54002**
Veera Kumar, M. K. R. S. Between semi-closed sets and semi-pre-closed sets. (English summary) **2001m:54002**
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## 54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)

Bhattacharya, Debasish[2] *see* Bhaumik, R. N., **2001c:54015**
Bhaumik, R. N. (*with* Bhattacharya, Debasish[2]) Regular $cb$-spaces. (English summary) **2001c:54015**
Burke, Dennis K. (*with* Pol, Roman) Products of Michael spaces and completely metrizable spaces. (English summary) **2001h:54037**
Gauld, David Covering properties and metrisation of manifolds. (English summary) **2001j:54018**
Gul′ko, A. S. A sufficient condition for complete regularity of rectifiable spaces. (Russian. English and Russian summaries) **2001f:54025**
Heckmanns, Ulrich (*with* Watson, W. Stephen) On $\sigma$-discrete, $T$-finite and tree-type topologies. (English summary) **2001b:54027**
Just, Winfried (*with* Matveev, Mikhail Valer′evich; Szeptycki, Paul J.) Some results on property (a). (English summary) **2001j:54019**
Kombarov, A. P. On Lindelöf-normal spaces. (English summary) **2001e:54041**
Matveev, Mikhail Valer′evich *see* Just, Winfried et al., **2001j:54019**
Nyikos, Peter J. Hereditarily normal, locally compact Dowker spaces. (English summary) **2001i:54017**
Pol, Elżbieta Two examples of perfectly normal spaces. (English summary) **2001m:54019**
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Siweya, Hlengani James A note on the Hofmann-Lawson-Banaschewski theorem. (English summary) **2001j:54020**
Szeptycki, Paul J. *see* Just, Winfried et al., **2001j:54019**
Watson, W. Stephen *see* Heckmanns, Ulrich, **2001b:54027**
Yakivchik, A. N. Subnormal spaces and a Dowker-type problem. (Russian. English and Russian summaries) **2001i:54018**
— Subnormality in subspaces of products. **2001e:54042**

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Alamleh, Mohammad *see* Saleh, Mohammad A., **(2001b:00025)**
Bennett, Harold R. (*with* Heath, Robert W.; Lutzer, David J.) GO-spaces with $\sigma$-closed discrete dense subsets. (English summary) **2001i:54033**
Cao, Jin Wen The inverse limits property of normal weakly $\theta$-refinable spaces. (Chinese. English and Chinese summaries)
Chaber, J. (*with* Pol, Roman) On the Cantor-Bendixson derivative, resolvable ranks, and perfect set theorems of A. H. Stone. (English summary) **2001a:54050**
Di Caprio, D. (*with* Meccariello, Enrico) Notes on separation axioms in hyperspaces. (English summary) **2001a:54012**
Eisworth, Todd On countably compact spaces satisfying $wD$ hereditarily. (English summary) **2001j:54021**
Fedeli, Alessandro (*with* Le Donne, Attilio) Embeddings into normal first countable spaces. (English summary) **2001i:54013**
Gartside, P. M. (*with* Mohamad, Abdul M.) Cleavability of manifolds. (English summary) **2001g:54010**
Good, Chris (*with* Stares, Ian) New proofs of classical insertion theorems. (English summary) **2001a:54020**
Gutev, Valentin Generic extensions of finite-valued u.s.c. selections. (English summary) **2001e:54038**
van Hartskamp, Michael (*with* van Mill, Jan) Some examples related to colorings. (English summary) **2001j:54043**
Heath, Robert W. *see* Bennett, Harold R. et al., **2001i:54033**
Hou, Ji-Cheng Locally finite topology on the family of all closed subsets of a topological space. **2001i:54025**
Kemoto, Nobuyuki Topological properties of products of ordinal numbers. (*see* **2001d:03007**)
— (*with* Smith, Kerry D.; Szeptycki, Paul J.) Countable paracompactness versus normality in $\omega_1^2$. (English summary) **2001e:54045**
Kombarov, A. P. Weak normality of $2^X$ and $X^\tau$. (Russian. English and Russian summaries) **2001f:54007**
— On properties of countable paracompactness type in products. (Russian. Russian summary) **2001b:54029**
Kubiak, T. Separation axioms: extension of mappings and embedding of spaces.
Le Donne, Attilio *see* Fedeli, Alessandro, **2001i:54013**
Lutzer, David J. *see* Bennett, Harold R. et al., **2001i:54033**
Meccariello, Enrico *see* Di Caprio, D., **2001a:54012**
van Mill, Jan *see* van Hartskamp, Michael, **2001j:54043**
Mohamad, Abdul M. *see* Gartside, P. M., **2001g:54010**
Mortensen, Chris Topological separation principles and logical theories. (English summary) **2001j:03050**

**Pol, Roman** *see* **Chaber, J., 2001a:54050**
**Rodabaugh, S. E.** Separation axioms: representation theorems, compactness, and compactifications.
**Saleh, Mohammad A.** (*with* Alamleh, Mohammad) $N$-compactness and $\theta$-closed sets. (English summary) (*see* **2001b:00025**)
**Scheepers, Marion** (*with* Szeptycki, Paul J.) Some games related to perfect spaces. (English summary) **2001m:54021**
**Shishkov, Ivailo** Hereditarily normal Katětov spaces and extending of usco mappings. (English summary) **2001d:54017**
**Smith, Kerry D.** *see* **Kemoto, Nobuyuki et al., 2001e:54045**
**Stares, Ian** *see* **Good, Chris, 2001a:54020**
**Szeptycki, Paul J.** *see* **Kemoto, Nobuyuki et al., 2001e:54045** *and* **Scheepers, Marion, 2001m:54021**
**Xu, Xiao Quan** Strictly complete regularity of the Lawson topology on a continuous poset. (English summary) **2001c:54026**
**Yajima, Yukinobu** Special refinements and their applications on products. (English summary) **2001e:54015**
**Zhuraev, T. F.** Normal functors and the metrizability of compact Hausdorff spaces. (Russian. Russian summary) **2001k:54035**
**Zsilinszky, László** Note on hit-and-miss topologies. (English summary) **2001a:54013**

## 54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)

**Al Ghour, Samer H.** On paracompact and $D$-spaces. (English summary)
**Arkhangel'skiĭ, A. V.** (*with* Buzyakova, R. Z.) On some properties of linearly Lindelöf spaces. (English summary) **2001g:54025**
— Strong disconnectedness properties and remainders in compactifications. (English summary) **2001e:54043**
**Bonanzinga, M.** (*with* Matveev, Mikhail Valer'evich) Centered-Lindelöfness versus star-Lindelöfness. (English summary) **2001a:54031**
**Buhagiar, D.** (*with* Miwa, Takuo) On superparacompact and Lindelöf GO-spaces. (English summary) **2001a:54032**
**Buzyakova, R. Z.** *see* **Arkhangel'skiĭ, A. V., 2001g:54025**
**Cao, Jin Wen** The inverse limits property of normal weakly $\theta$-refinable spaces. (Chinese. English and Chinese summaries)
— (*with* Huang, Yun Kui) Properties of inverse limits of $\theta$-refinable spaces. (Chinese. English and Chinese summaries)
**Császár, Ákos** $\gamma$-compact spaces. (English summary) **2001c:54016**
**Dontchev, Julian** (*with* Ganster, Maximilian; Noiri, Takashi) On $p$-closed spaces. (English summary) **2001c:54017**
**Eisworth, Todd** On countably compact spaces satisfying $wD$ hereditarily. (English summary) **2001j:54021**
**Ewert, Janina** Invariance of almost paracompactness under some operations. (English summary) (*see* **2001d:00018**)
**Ganster, Maximilian** *see* **Dontchev, Julian et al., 2001c:54017**
**Gao, Zhi Min** *see* **Yasui, Yoshikazu, 2001b:54032**
**García-Ferreira, Salvador** (*with* Ohta, Haruto) $\alpha$-pseudocompact spaces and their subspaces. (English summary) **2001e:54044**
**(Grabner, Elise M.)** *see* **Miyazaki, Kazumi, (2001m:54001)**
**(Grabner, Gary C.)** *see* **Miyazaki, Kazumi, (2001m:54001)**
**Guido, C.** (*with* Kočinac, Ljubiša D.) Relative covering properties. (English summary) **2001m:54020**
**Hdeib, H. Z.** (*with* Sarsak, M. S.) On strongly Lindelöf spaces. (English summary) **2001k:54032**
**Huang, Yun Kui** *see* **Cao, Jin Wen**
**Ivanov, Aleksandr Vladimirovich[3]** On the hereditary separability of countably compact spaces. (Russian. English and Russian summaries) **2001b:54028**
— A zero-dimensional countably compact space that condenses onto a connected compact Hausdorff space. (Russian) **2001j:54022**
**Jiang, Shou Li** A survey on a Katuta-Junnila problem. (English summary) **2001j:54023**
**Junnila, Heikki J. K.** *see* **Künzi, Hans-Peter A. et al., 2001h:54038**
**Kemoto, Nobuyuki** (*with* Smith, Kerry D.; Szeptycki, Paul J.) Countable paracompactness versus normality in $\omega_1^2$. (English summary) **2001e:54045**
— (*with* Tamano, Ken-ichi; Yajima, Yukinobu) Generalized paracompactness of subspaces in products of two ordinals. (English summary) **2001c:54046**
**Kočinac, Ljubiša D.** Star-Menger and related spaces. II. (English summary) **2001k:54033**
— *see also* **Guido, C., 2001m:54020**
**Kombarov, A. P.** On properties of countable paracompactness type in products. (Russian. Russian summary) **2001b:54029**
**Künzi, Hans-Peter A.** (*with* Watson, W. Stephen; Junnila, Heikki J. K.) On a class of hereditarily paracompact spaces. (Russian. English and Russian summaries) **2001h:54038**
**Li, Jin Jin** Paracompact locally separable spaces, and their images. (Chinese. English and Chinese summaries)
**Li, Ze Jun** *see* **Zhang, Li Ping**
**Li, Zhao Wen** CS-mappings. (Chinese. English and Chinese summaries)
**Liu, Jing Zhao** (*with* Wang, Shu Quan; Yan, Yong) Countably $S(2)-\theta$-closed spaces. (Chinese. English and Chinese summaries)
**Matveev, Mikhail Valer'evich** Answering a question on relative countable paracompactness. **2001g:54026**
— *see also* **Bonanzinga, M., 2001a:54031**
**Miwa, Takuo** *see* **Buhagiar, D., 2001a:54032**
**Miyazaki, Kazumi** On properties of relative metacompactness and paracompactness type. (English summary) (*see* **2001m:54001**)
**Noiri, Takashi** *see* **Dontchev, Julian et al., 2001c:54017**
**Ohta, Haruto** *see* **García-Ferreira, Salvador, 2001e:54044**
**Peng, Liang-Xue** (*with* Wang, Shang Zhi) The Lindelöf property of countable products of Lindelöf DC-like spaces. (English summary) **2001j:54024**
**Sanchis, Manuel** (*with* Tamariz Mascarúa, Ángel) $p$-pseudocompactness and related topics in topological spaces. (English summary) **2001b:54030**
**Sarsak, M. S.** *see* **Hdeib, H. Z., 2001k:54032**
**Scheepers, Marion** (*with* Szeptycki, Paul J.) Some games related to perfect spaces. (English summary) **2001m:54021**
**Smith, Kerry D.** *see* **Kemoto, Nobuyuki et al., 2001e:54045**
**Song, Yan-Kui** On some questions on star covering properties. (English summary) **2001b:54031**
— Countable star-covering properties. (English summary) (*see* **2001a:54001**)
— On $\mathscr{Z}$-starcompact spaces. (English summary) (*see* **2001m:54001**)
**Szeptycki, Paul J.** *see* **Kemoto, Nobuyuki et al., 2001e:54045** *and* **Scheepers, Marion, 2001m:54021**
**Tamano, Ken-ichi** *see* **Kemoto, Nobuyuki et al., 2001e:54046**
**Tamariz Mascarúa, Ángel** $\alpha$-pseudocompactness in $C_p$-spaces. (English summary) **2001j:54025**
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— (*with* Bella, Angelo) On pseudocompactness of remainders of topological groups and some classes of mappings. (English summary) **2001i:54022**
**Babinkostova, Liljana** *see* **Kočinac, Ljubiša D. et al., 2001f:54019** *and* **2001m:54016**
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**Baik, B. S.** (*with* Hur, K.; Lee, Seung Woo; Rhee, C. J.) Hemicompactness and hemiconnectedness of hyperspaces. (English summary) **2001a:54010**
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**Bouziad, Ahmed** Le degré de Lindelöf est $l$-invariant. (English summary) [The Lindelöf degree is $l$-invariant] **2001f:54016**
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**Eisworth, Todd** (*with* Nyikos, Peter J.) Recent applications of totally proper forcing. (English summary) **2001b:03048**
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**Good, Chris** (*with* Mohamad, Abdul M.) A metrisation theorem for pseudocompact spaces. (English summary) **2001m:54027**
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**Gutev, Valentin** Generic extensions of finite-valued u.s.c. selections. (English summary) **2001e:54038**
**Hattori, Yasunao** $K$-approximations and infinite dimensional spaces. (*see* **2001a:54001**)
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**Iliadis, Stavros** A construction of containing spaces. (English summary) **2001e:54018**
**Jachymski, Jacek** (*with* Gajek, Leslaw; Pokarowski, Piotr) The Tarski-Kantorovitch principle and the theory of iterated function systems. (English summary) **2001c:54034**
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**Just, Winfried** (*with* Matveev, Mikhail Valer'evich; Szeptycki, Paul J.) Some results on property (a). (English summary) **2001j:54019**
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**Kovačević, Ilija** Some properties of subsets, almost closed mappings and paracompactness. (English summary) **2001k:54023**
**Kovár, M. M.** A generalization of $\theta$-regularity and bitopological covering properties. (English summary) (*see* **2001h:54003**)
**Küçük, Mahide** (*with* Zorlutuna, İdris) A unified theory for weak separation properties. (English summary)
**Kurilić, Miloš S.** Paraopen spaces—a class of peculiar spaces. (English summary) **2001i:54041**
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**Matveev, Mikhail Valer'evich** *see* **Just, Winfried et al., 2001j:54019**
**Matyushichev, K. V.** On $e$-compactifications and $e$-compactifiable spaces. (Russian. Russian summary) **2001m:54024**
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**Naidoo, I.** (*with* Baboolal, D.; Ori, Ramesh G.) Metacompact nearness frames. (English summary) **2001m:06018**
**Nyikos, Peter J.** Hereditarily normal, locally compact Dowker spaces. (English summary) **2001i:54017**
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**Ori, Ramesh G.** *see* **Naidoo, I. et al., 2001m:06018**
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**Ramadan, A. A.** (*with* Abbas, S. E.) On $L$-smooth paracompactness. (English summary)
**Rhee, C. J.** *see* **Baik, B. S. et al., 2001a:54010**
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**Shakhmatov, Dmitriĭ B.** Baire isomorphisms at the first level and dimension. (English summary) **2001g:54040**
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**Siweya, Hlengani James** A note on the Hofmann-Lawson-Banaschewski theorem. (English summary) **2001j:54020**
**Sondore, A.** On $\kappa B$-compact spaces. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
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**Stratigos, P. D.** $\sigma$-smoothness, $\tau$-smoothness, and tightness of measures under measure extension or restriction. (English summary) **2001g:28003**
**Szeptycki, Paul J.** *see* **Just, Winfried et al., 2001j:54019**
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**Uglešić, Nikica** (*with* Červar, Branko) Surjective simplicial inverse systems. (English summary) **2001b:54014**
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**Velichko, N. V.** On spaces $C_c(X)$. (English summary) **2001e:54031**
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**Watson, W. Stephen** *see* **Heckmanns, Ulrich, 2001b:54027**
**Xiong, Zhao Hui** Hyperparacompactness of inverse limits. (Chinese. English and Chinese summaries) **2001d:54008**
**Yajima, Yukinobu** Special refinements and their applications on products. (English summary) **2001e:54015**
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**Zhu, Pei Yong** Inverse limits for weakly $\overline{\theta}$-refinable spaces. (Chinese. English and Chinese summaries) **2001d:54009**
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## 54D25 "$P$-minimal" and "$P$-closed" spaces

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**Dontchev, Julian** (*with* Ganster, Maximilian; Noiri, Takashi) On $p$-closed spaces. (English summary) **2001c:54017**
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**Ganster, Maximilian** *see* **Dontchev, Julian et al., 2001c:54017**
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**Le Donne, Attilio** *see* **Fedeli, Alessandro, 2001a:54028**
**Noiri, Takashi** *see* **Dontchev, Julian et al., 2001c:54017**
**Tkachenko, Mikhail G.** *see* **Dikranjan, Dikran, 2001m:22002** *and* **2001m:22009**
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## 54D30 Compactness

**Arkhangel'skiĭ, A. V.** (*with* Fedorchuk, V. V.) On condensations of countably compact spaces onto compact Hausdorff spaces. (Russian. English and Russian summaries)
**Caldas Cueva, Miguel** New characterization for a topological space to be semi-$T_{1/2}$.
**Dontchev, Julian** (*with* Ganster, Maximilian) On compactness with respect to countable extensions of ideals and the generalized Banach category theorem. (English summary) **2001h:54040**
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**Kortezov, Ivaylo S.** The function space over the Helly compact is sigma-fragmentable. (English summary) **2001f:54026**
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**Pachón Rubiano, Néstor Raúl** On compact spaces and $T_0$. (Spanish. Spanish summary)
**Šlapal, Josef** Compactification of limit $\mathscr{S}$-net spaces. (English summary) **2001m:54022**
**Sondore, A.** On $\kappa B$-compact spaces. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
**Winkler, Reinhard** How much must an order theorist forget to become a topologist? (English summary) **2001e:54047**
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**Yang, Zhongqiang** Convergent sequences in spaces with finite compactness numbers. (English summary) **2001d:54021**
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**Bankston, Paul** A hierarchy of maps between compacta. (English summary) **2001h:03069**
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**Del Prete, I.** (*with* Di Iorio, M.; Holá, Ľubica) Graph convergence of set-valued maps and its relationship to other convergences. (English summary) **2001k:54030**
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**Herrlich, Horst** (*with* Keremedis, Kyriakos) Products, the Baire category theorem, and the axiom of dependent choice. (English summary) **2001e:03089**
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**Junnila, Heikki J. K.** Embeddings of weakly compact sets and $*$-paired Banach spaces. (English summary) **2001j:46015**
**Kalenda, Ondřej F. K.** Embedding of the ordinal segment $[0, \omega_1]$ into continuous images of Valdivia compacta. (English summary) **2001a:54015**

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**Kombarov, A. P.** On properties of countable paracompactness type in products. (Russian. Russian summary) **2001b:54029**
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**Kopperman, Ralph** *see* **Ciesielski, Krzysztof$^2$ et al., 2001b:06033**
**Kozlov, Konstantin L.** *see* **Chatyrko, V. A. et al., 2001g:54038**
**Kubiak, T.** (*with* de Prada Vicente, M. A.) Regular $L$-fuzzy topological spaces and their topological modifications. (English summary) **2001b:54009**
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**Künzi, Hans-Peter A.** *see* **Holá, Ľubica, 2001h:54015**
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**Li, Qing Guo** $m$-compactness in fuzzy topological spaces. II. (Chinese. English and Chinese summaries)
**Malykhin, V. I.** (*with* Tironi, Gino) Weakly Fréchet-Urysohn and Pytkeev spaces. (English summary) **2001e:54006**
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**Nykyforchyn, O. R.** On continuity, openness, and bicommutativity of functors in the category of compacta. **2001d:54007**
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**Reznichenko, E. A.** *see* **Gartside, P. M., 2001h:54050**
**Rodabaugh, S. E.** Separation axioms: representation theorems, compactness, and compactifications.
**Rosas, Ennis** (*with* Vielma, Jorge) Operator compactification of topological spaces. (English and Spanish summaries) **2001j:54028**
— (*with* Vielma, Jorge) Alpha-compactness with respect to an ideal. (English summary) **2001e:54050b**
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**Saleh, Mohammad A.** On almost strong $\theta$-continuity. (English summary)
**Sokolov, G. A.** *see* **Gul'ko, Sergei P., 2001e:54030**
**Srivastava, Manjari** *see* **Srivastava, Rekha**
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**Tironi, Gino** *see* **Malykhin, V. I., 2001e:54006**
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**Vielma, Jorge** (*with* Rosas, Ennis) Ideal operator compactification of topological spaces. (English summary) **2001e:54050a**
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**Warner, M. W.** *see* **Aygün, Halis et al.**
**Wu, Hong Bo** Some compactness properties for Vietoris topological spaces. (Chinese. English and Chinese summaries)
**Yang, Jian Xin** $L$-fuzzy $\theta$-$N$-compact spaces. (Chinese. English and Chinese summaries)
**Zorlutuna, İdris** *see* **Küçük, Mahide**

## 54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)

**Agrawal, Gunjan** On $n$-point $H$-closed extensions. (English summary) **2001j:54026**
**Aizpuru Tomás, Antonio** (*with* Martínez de la Rosa, Félix) Hausdorff compactifications of completely regular spaces. (English summary) **2001e:54048**
**Banaschewski, Bernhard** (*with* Gilmour, Christopher) Cozero bases of frames. (English summary) **2001k:54036**
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**Bludova, Irina V.** (*with* Nordo, Giorgio; Pasynkov, Boris A.) On the homeomorphism of spaces and Magill-type theorems. (English summary) **2001m:54023**
**Cao, Shangmin** Regular closed Boolean algebra in space with one point Lindelöffication topology. (English summary) **2001i:54019**
**Debray, Atasi** *see* **Mukherjee, M. N.**
**Ershov, Yurii Leonidovich** On essential extensions of $T_0$-spaces. (Russian) **2001c:54020**
**Evstigneev, V. G.** Construction of all equivariant realcompact extensions by means of nets. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) On the Stone-Čech bicompactification of a bispace. (English summary) **2001a:54033**
**Gilmour, Christopher** *see* **Banaschewski, Bernhard, 2001k:54036**
**Gruenhage, Gary** (*with* Moore, Justin T.) Countable Toronto spaces. (English summary) **2001c:54021**
**Gryzlov, A. A.** On compactifications of discrete spaces. (Russian. English and Russian summaries) **2001k:54037**
— Independent matrices and some points of $\beta\tau$. (English summary) **2001e:54049**
**Hindman, Neil** (*with* Maleki, Amir; Strauss, Dona Papert) Linear equations in the Stone-Čech compactification of N. (English summary) **2001i:54020**
**Iwamoto, Yutaka** (*with* Tomoyasu, Kazuo) Higson compactification of the half-open intervals. (Japanese) (*see* **2001m:54001**)
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**Lowen, Robert** (*with* Sioen, M.) A Wallman–Shanin-type compactification for approach spaces. (English summary) **2001k:54038**
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**Neira, Clara M.** (*with* Varela, Januario) The Stone-Čech compactification in the category of sheaves of sets. (English and Spanish summaries) **2001c:54022**
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— *see also* **Bludova, Irina V. et al., 2001m:54023**
**Okunev, Oleg** (*with* Tamariz Mascarúa, Ángel) Some results and problems about weakly pseudocompact spaces. (English summary) **2001c:54023**
**Pasynkov, Boris A.** *see* **Nordo, Giorgio, 2001i:54021** *and* **Bludova, Irina V. et al., 2001m:54023**
**Prabhu, Vrunda** A subspace of the upper Stone-Cech compactification. (English summary) **2001k:54039**
**Rath, Nandita** Completion of a Cauchy space without the $T_2$-restriction on the space. (English summary) **2001c:54024**
**Romaguera, Salvador** *see* **García-Ferreira, Salvador et al., 2001a:54033**
**Rosas, Ennis** (*with* Vielma, Jorge) Operator compactification of topological spaces. (English and Spanish summaries) **2001j:54028**
— (*with* Vielma, Jorge) Alpha-compactness with respect to an ideal. (English summary) **2001e:54050b**
— *see also* **Vielma, Jorge, 2001e:54050a**
**Salbany, Sergio** Ultrafilter spaces and compactifications. (English summary) **2001j:54029**
**Sanchis, Manuel** *see* **García-Ferreira, Salvador et al., 2001a:54033**
**Sioen, M.** *see* **Lowen, Robert, 2001k:54038**
**Strauss, Dona Papert** *see* **Hindman, Neil et al., 2001i:54020**
**Tamariz Mascarúa, Ángel** *see* **Okunev, Oleg, 2001c:54023**
**Tomoyasu, Kazuo** *see* **Iwamoto, Yutaka, (2001m:54001)**
**Tsereteli, I.** On an integer-valued topological invariant and its behavior under one-to-one continuous mappings of special spaces. (English summary)
**Varela, Januario** *see* **Neira, Clara M., 2001c:54022**
**Vielma, Jorge** (*with* Rosas, Ennis) Ideal operator compactification of topological spaces. (English summary) **2001e:54050a**
— *see also* **Rosas, Ennis, 2001e:54050b** *and* **2001j:54028**
**Wig, Jennifer** (*with* Kent, Darrell C.) $p$-topological Cauchy completions. (English summary) **2001h:54041**

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**Alas, O. T.** (*with* Tkachenko, Mikhail G.; Tkachuk, V. V.; Wilson, Richard Gordon) Connectedness and local connectedness of topological groups and extensions. (English summary) **2001c:54030**
**Arenas, Francisco G.** (*with* Chatyrko, V. A.; Puertas, María Luz) Transfinite extension of Steinke's dimension. (English summary) **2001h:54061**
**Attia, H.** On relative dimensions, inductive compactness and defects of spaces. (English summary) **2001j:54038**
**Buhagiar, D.** The Tamano theorem in $\mathcal{MSP}$. (English summary) **2001i:54011**
**Chandler, Richard Edward** (*with* Faulkner, Gary D.) Hausdorff compactifications: a retrospective. **2001h:54002**
**Chattopadhyay, K. C.** (*with* Ghosh, D. P.; Guin, Sushama) Proximities and subsets of $C^*(X)$. (English summary)
**Chatyrko, V. A.** On factorization theorem for transfinite dimension $\dim_C$. (English summary) **2001j:54039**
— *see also* **Arenas, Francisco G. et al., 2001h:54061**
**Chicourrat, Monique** RE-proximities as fixed points of an operator on pseudo proximities. (English summary) **2001f:54029**
**Dontchev, Julian** (*with* Ganster, Maximilian) On compactness with respect to countable extensions of ideals and the generalized Banach category theorem. (English summary) **2001h:54040**
**Erné, Marcel** (*with* Palko, Vladimír) Uniform ideal completions. (English summary) **2001a:06001**
**Evans, Steven N.** Random spanning trees of Cayley graphs and an associated compactification of semigroups. (English summary) **2001h:60012**
**Fan, Zhu Jun** *see* **Qiu, Dao Wen**
**Faulkner, Gary D.** *see* **Chandler, Richard Edward, 2001h:54002**
**Fedeli, Alessandro** (*with* Le Donne, Attilio) The Sorgenfrey line has a locally pathwise connected connectification. (English summary) **2001c:54014**
**Florinskiĭ, A. A.** Connected extensions of metric spaces and fixed points of Banach contractions. (English summary) **2001e:54063**
**Frith, J.** (*with* Hunsaker, W.; Walters-Wayland, J.) The Samuel compactification of a quasi-uniform frame. (English summary) **2001j:06014**
— (*with* Hunsaker, W.) Completion of quasi-uniform frames. (English summary) **2001d:06016**
**Ganster, Maximilian** *see* **Dontchev, Julian, 2001h:54040**
**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) Bounded subsets and Grothendieck's theorem for bispaces. (English summary) **2001b:54037**
— (*with* Sanchis, Manuel; Watson, W. Stephen) Some remarks on the product of two $C_u$-compact subsets. (English summary) **2001d:54004**
— (*with* Ohta, Haruto) $\alpha$-pseudocompact spaces and their subspaces. (English summary) **2001e:54044**
**Ghosh, D. P.** *see* **Chattopadhyay, K. C. et al.**

**Gregori, Valentin** (*with* Marín, Josefa; Romaguera, Salvador) Some remarks on right $K$-completion of quasi-uniform spaces. (English summary) (*see* **2001h:54003**)
**Guin, Sushama** *see* **Chattopadhyay, K. C. et al.**
**Hong, Sung Sa** (*with* Kim, Young Kyoung) Cauchy complete nearness spaces. (English summary) **2001d:54022**
**Hong, Woo Chorl** On sequential spaces and a related class of spaces. (English summary) **2001g:54027**
**Hunsaker, W.** *see* **Frith, J. et al., 2001d:06016** *and* **2001j:06014**
**Ivanov, Aleksandr Aleksandrovich** Bitopologies of products and ratios. (Russian. English and Russian summaries) **2001h:54056**
**Iwamoto, Yutaka** (*with* Sakai, Katsuro) A mapping theorem for $Q$-manifolds and $\mu^{n+1}$-manifolds. (English summary)
**Jalilian, A.** (*with* Pourabdollah, M. A.) Universal compactifications of transformation semigroups. (English summary) **2001m:54038**
**Kalenda, Ondřej F. K.** Valdivia compact spaces in topology and Banach space theory. **2001k:46024**
**Karmazin, A. P.** Fundamental theorems in the theory of pre-ends of three-dimensional domains. (Russian. Russian summary) **2001e:30029**
**Kent, Darrell C.** (*with* Wig, Jennifer) $p$-regular Cauchy completions. (English summary) **2001g:54004**
**Kim, Young Kyoung** Frames with a unique uniformity. (English summary) **2001j:54031**
— *see also* **Hong, Sung Sa, 2001d:54022**
**Kubiak, T.** Separation axioms: extension of mappings and embedding of spaces.
**Le Donne, Attilio** *see* **Fedeli, Alessandro, 2001c:54014**
**Liang, Ji Hua** *see* **Yu, Wei Ping, 2001k:54014**
**Marín, Josefa** *see* **Gregori, Valentín et al., (2001h:54003)**
**Ohta, Haruto** *see* **García-Ferreira, Salvador, 2001e:54044**
**Palko, Vladimír** *see* **Erné, Marcel, 2001a:06001**
**Pol, Elżbieta** Two examples of perfectly normal spaces. (English summary) **2001m:54019**
**Pourabdollah, M. A.** *see* **Jalilian, A., 2001m:54038**
**Puertas, María Luz** *see* **Arenas, Francisco G. et al., 2001h:54061**
**Qiu, Dao Wen** (*with* Fan, Zhu Jun) The Wallman extension in fuzzifying topology. (English summary)
**Reinhold, Jürgen** Finite intervals in the lattice of topologies. (English summary) **2001e:54003**
**Rodabaugh, S. E.** Separation axioms: representation theorems, compactness, and compactifications.
**Romaguera, Salvador** *see* **García-Ferreira, Salvador et al., 2001b:54037** *and* **Gregori, Valentín et al., (2001h:54003)**
**Sakai, Katsuro** *see* **Iwamoto, Yutaka**
**Salbany, Sergio** (*with* Todorov, Todor Dimitrov[1]) Nonstandard analysis in topology: nonstandard and standard compactifications. (English summary) **2001m:54046**
**Sanchis, Manuel** *see* **García-Ferreira, Salvador et al., 2001b:54037** *and* **2001d:54004**
**Sioen, M.** On the epireflectivity of the Wallman-Shanin-type compactification for approach spaces. (English summary) **2001h:18005**
**Srivastava, Anjali** On singular compactification of an orbit space. (English summary)
— On homotopic extension of homotopic maps. (English summary)
**Tanaka, Yoshio[1]** GO-spaces and orderability of compactifications. (*see* **2001m:54001**)
**Tkachenko, Mikhail G.** *see* **Alas, O. T. et al., 2001c:54030**
**Tkachuk, V. V.** *see* **Alas, O. T. et al., 2001c:54030**
**Todorov, Todor Dimitrov[1]** *see* **Salbany, Sergio, 2001m:54046**
**Walters-Wayland, J.** *see* **Frith, J. et al., 2001j:06014**
**Watson, W. Stephen** *see* **García-Ferreira, Salvador et al., 2001d:54004**
**Wig, Jennifer** *see* **Kent, Darrell C., 2001g:54004**
**Wilson, Richard Gordon** *see* **Alas, O. T. et al., 2001c:54030**
**Yu, Wei Ping** (*with* Liang, Ji Hua) Real compactness for $L$-fuzzy topological spaces. (Chinese. English and Chinese summaries) **2001k:54014**
**Zahran, A. M.** Regularly open sets and a good extension on fuzzy topological spaces. (English summary)

## 54D40 Remainders

**Arkhangel'skiĭ, A. V.** (*with* Bella, Angelo) On pseudocompactness of remainders of topological groups and some classes of mappings. (English summary) **2001i:54022**
**Bella, Angelo** *see* **Arkhangel'skiĭ, A. V., 2001i:54022**
**Protasov, Igor Vladimirovich** (*with* Pym, J.; Strauss, Dona Papert) A lemma on extending functions into $F$-spaces and homomorphisms between Stone-Čech remainders. (English summary) **2001a:54035**
**Pym, J.** *see* **Protasov, Igor Vladimirovich et al., 2001a:54035**
**Strauss, Dona Papert** *see* **Protasov, Igor Vladimirovich et al., 2001a:54035**
**Tsereteli, I.** On continuous one-to-one mappings of spaces with finite order remainder in sense of H. Inassaridze. (English summary)

### Items with secondary classifications in 54D40

**Agrawal, Gunjan** On $n$-point $H$-closed extensions. (English summary) **2001j:54026**
**Attia, H.** On relative dimensions, inductive compactness and defects of spaces. (English summary) **2001j:54038**
**Farah, Ilijas** Analytic quotients: theory of liftings for quotients over analytic ideals on the integers. (English summary) **2001c:03076**
**Tsereteli, I.** On an integer-valued topological invariant and its behavior under one-to-one continuous mappings of special spaces. (English summary)

## 54D45 Local compactness, $\sigma$-compactness

**Cao, Jin Wen** *see* **Huang, Yun Kui**
**Huang, Yun Kui** (*with* Cao, Jin Wen) $\sigma$-products on $\sigma$-metacompact spaces and $\sigma$-mesocompact spaces. (Chinese. English and Chinese summaries)
**Sun, Sheng Li** *see* **Yan, Ming Gang**
**Yan, Ming Gang** (*with* Sun, Sheng Li) Strongly compact spaces. (Chinese. English and Chinese summaries)

### Items with secondary classifications in 54D45

**Gartside, P. M.** (*with* Mohamad, Abdul M.) Cleavability of manifolds. (English summary) **2001g:54010**
**Ge, Ying** The closed Lindelöf images of locally compact spaces. (Chinese. English and Chinese summaries) **2001e:54020**
**Jiang, Shou Li** *see* **Wang, Shu Quan, 2001c:54018**
**Mohamad, Abdul M.** *see* **Gartside, P. M., 2001g:54010**
**Rosas, Ennis** (*with* Vielma, Jorge) Operator compactification of topological spaces. (English and Spanish summaries) **2001j:54028**
— (*with* Vielma, Jorge) Alpha-compactness with respect to an ideal. (English summary) **2001e:54050b**
— *see also* **Vielma, Jorge, 2001e:54050a**
**Shakhmatov, Dmitriĭ B.** Baire isomorphisms at the first level and dimension. (English summary) **2001g:54040**
**Vielma, Jorge** (*with* Rosas, Ennis) Ideal operator compactification of topological spaces. (English summary) **2001e:54050a**
— *see also* **Rosas, Ennis, 2001e:54050b** *and* **2001j:54028**
**Wang, Shu Quan** (*with* Jiang, Shou Li) Countably $S(2)$-$\theta$-closed spaces. (English summary) **2001c:54018**

## 54D50 $k$-spaces

**Arkhangel'skiĭ, A. V.** An operation on topological spaces. (English summary) **2001k:54040**
**Tanaka, Yoshio[1]** Products of $k$-spaces, and $k$-networks. **2001a:54036**

### Items with secondary classifications in 54D50

**Arkhangel'skiĭ, A. V.** Moscow spaces, Pestov-Tkačenko problem, and $C$-embeddings. (English summary) **2001k:54062**
**Dolecki, Szymon** (*with* Nogura, Tsugunori) Two-fold theorem on Fréchetness of products. (English summary) **2001h:54004**
**Jiang, Shou Li** *see* **Li, Jin Jin**
**Li, Jin Jin** (*with* Jiang, Shou Li) On sequence-covering strong $s$-mappings. (English summary)
**Nogura, Tsugunori** *see* **Dolecki, Szymon, 2001h:54004**

## 54D55 Sequential spaces

**Cai, Wei Yuan** *see* **Li, Jin Jin, 2001m:54025**
**Hong, Woo Chorl** On sequential spaces and a related class of spaces. (English summary) **2001g:54027**
**Li, Jin Jin** (*with* Cai, Wei Yuan) Notes on sequence-covering $s$-mappings. (Chinese. English and Chinese summaries) **2001m:54025**
— Sequence-covering $L$-images for paracompact locally compact spaces. (Chinese. English and Chinese summaries)
— (*with* Li, Ke Dian) The sequence-covering compact images of paracompact locally compact spaces. (English summary) **2001j:54030**
**Li, Ke Dian** *see* **Li, Jin Jin, 2001j:54030**
**Yun, Zi Qiu** On separable sequential spaces and $\sigma$-hcp $k$-networks. (English summary) **2001g:54028**

### Items with secondary classifications in 54D55

**Artico, G.** (*with* Marconi, Umberto; Moresco, R.; Pelant, Jan) Selectors and scattered spaces. (English summary) **2001k:54031**
**Bella, Angelo** (*with* Yashchenko, Ivan V.) On AP and WAP spaces. (English summary) **2001a:54006**
— (*with* Dow, Alan) On $R$-monolithic spaces. (English summary) **2001e:54007**
— (*with* Dow, Alan; Tironi, Gino) Pseudoradial spaces: separable subsets, products and maps onto Tychonoff cubes. (English summary) **2001j:54004**
**Costantini, Camillo** (*with* Simon, Petr) An $\alpha_4$, not Fréchet product of $\alpha_4$ Fréchet spaces. (English summary) **2001f:54039**
**Dolecki, Szymon** (*with* Nogura, Tsugunori) Two-fold theorem on Fréchetness of products. (English summary) **2001h:54004**
— (*with* Mynard, Frédéric) Convergence-theoretic mechanisms behind product theorems. (English summary) **2001e:54005**
**Dow, Alan** *see* **Bella, Angelo et al., 2001e:54007** *and* **2001j:54004**
**Gajek, Leslaw** *see* **Jachymski, Jacek et al., 2001c:54034**
**Jachymski, Jacek** (*with* Gajek, Leslaw; Pokarowski, Piotr) The Tarski-Kantorovitch principle and the theory of iterated function systems. (English summary) **2001c:54034**
**Jiang, Shou Li** *see* **Li, Jin Jin, 2001a:54018**
**Li, Jin Jin** (*with* Jiang, Shou Li) Locally countable networks and strong $s$-mappings. (Chinese. English and Chinese summaries) **2001a:54018**
— Compact-covering ss-images of metric spaces. (English summary)
— (*with* Lin, Shou) Sequence-covering cs-images of metric spaces. (English summary) **2001h:54052**
**Lin, Shou** (*with* Yan, Peng Fei) On sequence-covering compact mappings. (Chinese. English and Chinese summaries) **2001m:54030**
— (*with* Yan, Peng Fei) Sequence-covering maps of metric spaces. (English summary) **2001m:54031**
— *see also* **Li, Jin Jin, 2001h:54052** *and* **Yan, Peng Fei, (2001g:54003)**
**Malykhin, V. I.** (*with* Tironi, Gino) Weakly Fréchet-Urysohn and Pytkeev spaces. (English summary) **2001e:54006**
**Marconi, Umberto** *see* **Artico, G. et al., 2001k:54031**
**Moresco, R.** *see* **Artico, G. et al., 2001k:54031**
**Mynard, Frédéric** Strongly sequential spaces. (English summary) **2001d:54001**
— *see also* **Dolecki, Szymon, 2001e:54005**
**Nogura, Tsugunori** *see* **Dolecki, Szymon, 2001h:54004**
**Pelant, Jan** *see* **Artico, G. et al., 2001k:54031**
**Pokarowski, Piotr** *see* **Jachymski, Jacek et al., 2001c:54034**
**Simon, Petr** *see* **Costantini, Camillo, 2001f:54039**

**Song, Yan-Kui** On some questions on star covering properties. (English summary) **2001b:54031**
— Countable star-covering properties. (English summary) (*see* **2001a:54001**)
— On $\mathscr{I}$-starcompact spaces. (English summary) (*see* **2001m:54001**)
**Tironi, Gino** *see* **Malykhin, V. I., 2001e:54006** *and* **Bella, Angelo et al., 2001j:54004**
**Yan, Peng Fei** (*with* Lin, Shou) Point-countable $k$-networks, $cs^*$-networks and $\alpha_4$-spaces. (English summary) (*see* **2001g:54003**)
— *see also* **Lin, Shou, 2001m:54030** *and* **2001m:54031**
**Yashchenko, Ivan V.** *see* **Bella, Angelo, 2001a:54006**

## 54D60 Realcompactness and realcompactification

**Banaschewski, Bernhard** A uniform view of localic realcompactness. (English summary) **2001i:54023**

Items with secondary classifications in 54D60

**Arkhangel'skiĭ, A. V.** An operation on topological spaces. (English summary) **2001k:54040**
— Moscow spaces, Pestov-Tkačenko problem, and $C$-embeddings. (English summary) **2001k:54062**
**Banaschewski, Bernhard** (*with* Gilmour, Christopher) Cozero bases of frames. (English summary) **2001k:54036**
**Blasco, José L.** On the existence of subalgebras of $C(X)$ which are not isomorphic to $C(Y)$ for any space $Y$. (English summary) **2001h:54029**
**Gilmour, Christopher** *see* **Banaschewski, Bernhard, 2001k:54036**
**Karmazin, A. P.** Fundamental theorems in the theory of pre-ends of three-dimensional domains. (Russian. Russian summary) **2001e:30029**
**Mrowka, S.** $\mathscr{R}$-compact spaces with weight $X < \mathrm{Exp}_{\mathscr{R}} X$. (English summary) **2001b:54007**
**Salbany, Sergio** (*with* Todorov, Todor Dimitrov[1]) Nonstandard analysis in topology: nonstandard and standard compactifications. (English summary) **2001m:54046**
— Ultrafilter spaces and compactifications. (English summary) **2001j:54029**
**Tkachuk, V. V.** Behaviour of the Lindelöf $\Sigma$-property in iterated function spaces. (English summary) **2001h:54030**
**Todorov, Todor Dimitrov[1]** *see* **Salbany, Sergio, 2001m:54046**

## 54D65 Separability

**Hu, Yong Li** (*with* Wang, Shang Zhi; Pen, Liang Xue) Two problems in relative topology. (Chinese. English and Chinese summaries)
**Pen, Liang Xue** *see* **Hu, Yong Li et al.**
**Wang, Shang Zhi** *see* **Hu, Yong Li et al.**

Items with secondary classifications in 54D65

**Keremedis, Kyriakos** (*with* Tachtsis, Eleytherios) Compact metric spaces and weak forms of the axiom of choice. (English summary) **2001k:03103**
**Tachtsis, Eleytherios** *see* **Keremedis, Kyriakos, 2001k:03103**

## 54D70 Base properties

**Alleche, Boualem** (*with* Arkhangel'skiĭ, A. V.; Calbrix, Jean) Weak developments and metrization. (English summary) **2001g:54029**
**Arkhangel'skiĭ, A. V.** (*with* Just, Winfried; Rezniczenko, E. A.; Szeptycki, Paul J.) Sharp bases and weakly uniform bases versus point-countable bases. (English summary) **2001f:54027**
— *see also* **Alleche, Boualem et al., 2001g:54029**
**Balogh, Zoltán T.** (*with* Bennett, Harold R.; Burke, Dennis K.; Gruenhage, Gary; Lutzer, David J.; Mashburn, Joe) OIF spaces. (English summary) **2001g:54030**
**Bennett, Harold R.** *see* **Balogh, Zoltán T. et al., 2001g:54030**
**Burke, Dennis K.** *see* **Balogh, Zoltán T. et al., 2001g:54030**
**Calbrix, Jean** *see* **Alleche, Boualem et al., 2001g:54029**
**Gruenhage, Gary** *see* **Balogh, Zoltán T. et al., 2001g:54030**
**Hung, H. H.** Characterization of bases of countable order and factorization of monotone developability. (English summary) **2001k:54041**
**Just, Winfried** *see* **Arkhangel'skiĭ, A. V. et al., 2001f:54027**
**Lutzer, David J.** *see* **Balogh, Zoltán T. et al., 2001g:54030**
**Mashburn, Joe** *see* **Balogh, Zoltán T. et al., 2001g:54030**
**Rezniczenko, E. A.** *see* **Arkhangel'skiĭ, A. V. et al., 2001f:54027**
**Szeptycki, Paul J.** *see* **Arkhangel'skiĭ, A. V. et al., 2001f:54027**

Items with secondary classifications in 54D70

**Balogh, Zoltán T.** (*with* Davis, S. W.; Just, Winfried; Shelah, Saharon; Szeptycki, Paul J.) Strongly almost disjoint sets and weakly uniform bases. (English summary) **2001b:03046**
**Davis, S. W.** *see* **Balogh, Zoltán T. et al., 2001b:03046**
**Ge, Ying** Two questions on local properties. (English summary)
**Gutev, Valentin** (*with* Ohta, Haruto) Does $C^*$-embedding imply $C$-embedding in the realm of products with a non-discrete metric factor? (English summary) **2001j:54015**
**Just, Winfried** *see* **Balogh, Zoltán T. et al., 2001b:03046**
**Kozlov, Konstantin L.** On $\kappa$-closed images of subsets of topological products. (Russian. English and Russian summaries) **2001f:54005**
**Ohta, Haruto** *see* **Gutev, Valentin, 2001j:54015**
**Shelah, Saharon** *see* **Balogh, Zoltán T. et al., 2001b:03046**
**Szeptycki, Paul J.** *see* **Balogh, Zoltán T. et al., 2001b:03046**
**Zhu, Pei Yong** Inverse limits for weakly $\overline{\theta}$-refinable spaces. (Chinese. English and Chinese summaries) **2001d:54009**

## 54D80 Special constructions of spaces (spaces of ultrafilters, etc.)

Items with secondary classifications in 54D80

**Aizpuru Tomás, Antonio** (*with* Martínez de la Rosa, Félix) Hausdorff compactifications of completely regular spaces. (English summary) **2001e:54048**
**Costantini, Camillo** (*with* Simon, Petr) An $\alpha_4$, not Fréchet product of $\alpha_4$ Fréchet spaces. (English summary) **2001f:54039**
**Feng, Li** Strongly exactly $n$-resolvable spaces of arbitrarily large dispersion character. (English summary) **2001e:54059**
**Hindman, Neil** (*with* Protasov, Igor Vladimirovich; Strauss, Dona Papert) Strongly summable ultrafilters on abelian groups. (English and Russian summaries) **2001d:22003**
**Hong, Woo Chorl** On sequential spaces and a related class of spaces. (English summary) **2001g:54027**
**Mahavier, William S.** Joinable continua—an application of inverse limits. (English summary) **2001k:54054**
**Martínez de la Rosa, Félix** *see* **Aizpuru Tomás, Antonio, 2001e:54048**
**Protasov, Igor Vladimirovich** Resolvability of groups. (Russian. English and Russian summaries) **2001f:22004**
— *see also* **Hindman, Neil et al., 2001d:22003**
**Simon, Petr** *see* **Costantini, Camillo, 2001f:54039**
**Šlapal, Josef** Compactification of limit $\mathscr{I}$-net spaces. (English summary) **2001m:54022**
**Strauss, Dona Papert** *see* **Hindman, Neil et al., 2001d:22003**

## 54D99 None of the above, but in this section

**Gao, Zhi Min** (*with* Yasui, Yoshikazu) Topological structure for the space consisting of images. (English summary)
**Ge, Ying** Two questions on local properties. (English summary)
**Yasui, Yoshikazu** *see* **Gao, Zhi Min**

Items with secondary classifications in 54D99

**Bognár, Mátyás** Complexes and components. **2001e:54013**
**Latif, Raja Mohammad** $D$-spaces. (English summary)
**McMaster, T. Brian M.** (*with* Turner, Colin R.) Total negation under constraint: pre-anti properties. (Italian summary) **2001i:54007**
**Nguyen Nhuy** (*with* Vu Hong Thanh) On Matheron theorem for non-locally compact metric spaces. (English summary) **2001k:54047**
**Simon, Petr** (*with* Tironi, Gino) A remark on products of pseudoradial compact spaces. (English summary) **2001k:54015**
**Tironi, Gino** *see* **Simon, Petr, 2001k:54015**
**Turner, Colin R.** *see* **McMaster, T. Brian M., 2001i:54007**
**Vu Hong Thanh** *see* **Nguyen Nhuy, 2001k:54047**
**Yamada, Kohzo** Is the free topological group on a c.c.c. space c.c.c.? (English summary) (*see* **2001a:54001**)

# 54Exx Spaces with richer structures

## 54E05 Proximity structures and generalizations

**Ardila de la Peña, Víctor Manuel** (*with* Rosas Riaño, Daniel Augusto; Montañez Puentes, José Reinaldo) A note on initial and final structures in the category of proximity spaces. (Spanish. Spanish summary) **2001f:54028**
**Chattopadhyay, K. C.** A note on the order structure of proximities inducing a topology. (English summary)
— (*with* Ghosh, D. P.; Guin, Sushama) Proximities and subsets of $C^*(X)$. (English summary)
**Chicourrat, Monique** RE-proximities as fixed points of an operator on pseudo proximities. (English summary) **2001f:54029**
**Császár, Ákos** Simultaneous extensions revisited. (English summary) **2001h:54042**
**Ghosh, D. P.** *see* **Chattopadhyay, K. C. et al.**
**Guin, Sushama** *see* **Chattopadhyay, K. C. et al.**
**Montañez Puentes, José Reinaldo** *see* **Ardila de la Peña, Víctor Manuel et al., 2001f:54028**
**Picado, Jorge** Structured frames by Weil entourages. (English summary) **2001e:54051**
**Rosas Riaño, Daniel Augusto** *see* **Ardila de la Peña, Víctor Manuel et al., 2001f:54028**

Items with secondary classifications in 54E05

**Bayoumi, Fatma** The $\alpha$-levels of a fuzzy uniform structure and of a fuzzy proximity. (English summary)
**Chattopadhyay, K. C.** (*with* Mukherjee, U. K.; Samanta, Syamal Kumar) Fuzzy prenearness spaces. (English summary)
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**Di Caprio, D.** (*with* Meccariello, Enrico) $G$-uniformities, LR-proximities and hypertopologies. (English summary) **2001h:54043**
**Di Concilio, Anna** (*with* Naimpally, Somashekhar Amrith) Function space topologies on (partial) maps. (*see* **2001f:54021**)
— (*with* Naimpally, Somashekhar Amrith) Proximal set-open topologies on partial maps. (English summary) **2001d:54014**
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**Luo, Mao Kang** *see* **Li, San Jiang**
**Mala, József** On proximal properties of proper symmetrizations of relators. (English summary) **2001m:08001**
**Meccariello, Enrico** *see* **Di Caprio, D., 2001h:54043**
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**Naimpally, Somashekhar Amrith** A brief survey of topologies on function spaces. (*see* **2001f:54021**)

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**Picado, Jorge** Two theorems of Efremovič in pointfree context. (English summary) **2001a:54038**
**Samanta, Syamal Kumar** *see* **Chattopadhyay, K. C. et al.**
**Xiong, Hua Ping** *see* **Xu, Xiao Quan et al.**
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## 54E15 Uniform structures and generalizations

**Angelov, Vasil G.** On the iterative test for $J$-contractive mappings in uniform spaces. (English summary) **2001f:54030**
**Császár, Ákos** Merotopies associated with quasi-uniformities. (English summary) **2001k:54042**
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**Garbaccio Bogin, R.** The uniformity induced by an Efremovich proximity space. (Italian. English summary)
**Gregori, Valentín** (*with* Marín, Josefa; Romaguera, Salvador) Some remarks on right $K$-completion of quasi-uniform spaces. (English summary) (*see* **2001h:54003**)
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**Johnson, W. B.** (*with* Lindenstrauss, Joram; Preiss, David; Schechtman, G.) Uniform quotient mappings of the plane. **2001a:54037**
**Kanetov, B. È.** On some properties of the remainder of uniform spaces. (Russian. English, Russian and Kirghiz summaries)
**Kim, Young Kyoung** Frames with a unique uniformity. (English summary) **2001j:54031**
**Künzi, Hans-Peter A.** (*with* Pérez-Peñalver, M. J.) The number of compatible totally bounded quasi-uniformities. (English summary) **2001h:54045**
— Remark on a result of Losonczi. (English summary) **2001i:54024**
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**Losonczi, Attila** Topological spaces with a coarsest compatible quasi-uniformity. (English summary) **2001h:54046**
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**Lyudkovskiĭ, S. V.** Non-Archimedean polyhedral decompositions of ultra-uniform spaces. (Russian. English and Russian summaries) **2001j:54032**
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— *see also* **Lowen, Robert**, **2001h:54047**

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**Bayoumi, Fatma** The $\alpha$-levels of a fuzzy uniform structure and of a fuzzy proximity. (English summary)
**Birsan, T.** Multifunctions and uniformity of metric spaces.
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**Borubaev, A. A.** (*with* Chekeev, Asylbek A.) On completions of topological groups with respect to the maximal uniform structure and factorization of uniform homomorphisms with respect to uniform weight and dimension. (English summary) **2001e:54060**
**Brümmer, Guillaume** (*with* Giuli, Eraldo; Holgate, D. B.) Direct reflections. (English summary) **2001j:18002**
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**Collins, P. J.** (*with* Hendrie, C. A.) On strict extensions of nearness spaces. (English summary) **2001k:54043**
**Császár, Ákos** Simultaneous extensions revisited. (English summary) **2001h:54042**
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**Gul'ko, A. S.** A sufficient condition for complete regularity of rectifiable spaces. (Russian. English and Russian summaries) **2001f:54025**
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**Hunsaker, W.** *see* **Frith, J. et al.**, **2001d:06016** *and* **2001j:06014**
**Kent, Darrell C.** (*with* Wig, Jennifer) $p$-regular Cauchy completions. (English summary) **2001g:54004**
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— (*with* Watson, W. Stephen) A problem about Banach balls. (English summary) **2001h:46015**
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**Lowen, Robert** (*with* Windels, Bart) Approach groups. (English summary) **2001i:54043**
**Mala, József** On proximal properties of proper symmetrizations of relators. (English summary) **2001m:08001**
**Malykhin, V. I.** Irresolvable countable spaces of weight less than $\mathfrak{c}$. (English summary) **2001h:54008**
**Matveev, Mikhail Valer'evich** (*with* Shkarin, Stanislav A.) Some questions on topological homogeneity. (English summary) **2001g:54042**
**Meenakshi, K. N.** *see* **Chandrika, G. K.**, **2001a:54009**
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**Naimpally, Somashekhar Amrith** A brief survey of topologies on function spaces. (*see* **2001f:54021**)
— *see also* **Di Concilio, Anna**, (**2001f:54021**)
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**Picado, Jorge** Structured frames by Weil entourages. (English summary) **2001e:54051**
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**Preuß, Gerhard** Completion of semiuniform convergence spaces. (English summary) **2001k:54002**
**Romaguera, Salvador** (*with* Salbany, Sergio) Dieudonné complete bispaces. (English summary) **2001j:54035**
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**Samanta, Syamal Kumar** (*with* Mondal, Tapas Kumar) Intuitionistic proximity. (English summary) (*see* **2001i:03008**)
**Shi, Fu Gui** *see* **Wu, Guang Qing**
**Shkarin, Stanislav A.** *see* **Matveev, Mikhail Valer'evich**, **2001g:54042**
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**Wig, Jennifer** (*with* Kent, Darrell C.) $p$-topological Cauchy completions. (English summary) **2001h:54041**
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**Wu, Guang Qing** (*with* Shi, Fu Gui) Pointed approach of Hutton's uniformity. (Chinese. English and Chinese summaries)

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**Hong, Sung Sa** (*with* Kim, Young Kyoung) Cauchy complete nearness spaces. (English summary) **2001d:54022**
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**Naimpally, Somashekhar Amrith** A brief survey of topologies on function spaces. (*see* **2001f:54021**)
**Picado, Jorge** Structured frames by Weil entourages. (English summary) **2001e:54051**
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## 54E18 $p$-spaces, $M$-spaces, $\sigma$-spaces, etc.

**Mizokami, Takemi** (*with* Shimane, Norihito) One development of the $M_3$ vs. $M_1$ problem. (*see* **2001m:54001**)
**Shimane, Norihito** *see* **Mizokami, Takemi**, (**2001m:54001**)
**Tamano, Ken-ichi** The $M_3 \Rightarrow M_1$ question and function spaces. (*see* **2001m:54001**)

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**Zhu, Pei Yong** Inverse limits for weakly $\overline{\theta}$-refinable spaces. (Chinese. English and Chinese summaries) **2001d:54009**

## 54E20 Stratifiable spaces, cosmic spaces, etc.

**Mizokami, Takemi** (*with* Shimane, Norihito) A Lašnev space is LF-netted. (English summary) **2001j:54033**
— (*with* Shimane, Norihito) On the $M_3$ versus $M_1$ problem. (English summary) **2001f:54032**
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**Banakh, T. O.** (*with* Bessaga, Czesław) On linear operators extending [pseudo]metrics. (English summary) **2001e:54023**
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**Turinici, Mihai** Variational principles on semi-metric structures. (English summary)

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**Deza, Michel-Marie** (*with* Rosenberg, Ivo G.) $n$-semimetrics. (English summary) **2001m:51025**
**Hong, Woo Chorl** On sequential spaces and a related class of spaces. (English summary) **2001g:54027**
**Losonczi, Attila** On the cardinality of compatible quasi-uniformities. (English summary) **2001b:54033**
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## 54E30 Moore spaces

**Mohamad, Abdul M.** On spaces with quasi-regular-$G_\delta$-diagonals. (English summary) **2001d:54023**
— Characterizations of Moore and semi-stratifiable spaces. (English summary) **2001a:54039**

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**Mohamad, Abdul M.** Conditions which imply metrizability in some generalized metric spaces. (English summary) **2001k:54046**
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## 54E35 Metric spaces, metrizability

**Beer, Gerald** On metric boundedness structures. (English summary) **2001d:54024**
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**Bhattacharyya, Paritosh** *see* **Paul, Ramprasad, 2001b:54036**
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**Gartside, P. M.** (*with* Reznichenko, E. A.) Katětov revisited. (English summary) **2001h:54050**
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**Jiang, Shou Li** *see* **Li, Jin Jin**
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**Koolen, Jack H.** (*with* Moulton, Vincent; Tönges, Udo) A classification of the six-point prime metrics. (English summary) **2001h:54051**
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**Li, Jin Jin** A question paralleling to Michael-Nagami problem. (English summary) **2001g:54031**
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**Mohamad, Abdul M.** Conditions which imply metrizability in some generalized metric spaces. (English summary) **2001k:54046**
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**Mustăţa, Costică** Uniqueness of the extension of semi-Lipschitz functions on quasi-metric spaces.
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— (*with* Vu Hong Thanh) On Matheron theorem for non-locally compact metric spaces. (English summary) **2001k:54047**
**Paul, Ramprasad** (*with* Bhattacharyya, Paritosh) On pre-Urysohn spaces. (English summary) **2001b:54036**
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**Vitolo, Paolo** The representation of weighted quasi-metric spaces. (English summary) **2001a:54041**
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**Wang, Guo Jun[1]** (*with* Wang, Wei[14]) Generalization of the Scheeffer's theorem. (English summary) **2001h:54053**
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**Yamada, Kohzo** Metrizable subspaces of free topological groups on metrizable spaces. (English summary) **2001h:54054**
**Yamazaki, Kaori** Extensions of partitions of unity and covers. (*see* **2001m:54001**)
**Yang, Feng-juan** *see* **Li, Ke Dian**
**Yang, Xiaohua** *see* **Yun, Zi Qiu et al., 2001h:54055**
**Yasui, Yoshikazu** *see* **Gao, Zhi Min, (2001g:54003)**
**Yoshioka, Iwao** On the metrizations of $\gamma$-spaces and $ks$-spaces. (English summary)
**Yun, Zi Qiu** (*with* Junnila, Heikki J. K.) On a special metric. (English summary) **2001k:54048**
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**Banakh, T. O.** AE(0)-spaces and regular operators extending (averaging) pseudometrics. (English summary)
— (*with* Bessaga, Czesław) On linear operators extending [pseudo]metrics. (English summary) **2001e:54023**
**Beer, Gerald** On convergence to infinity. (English summary) **2001c:54019**
**Bella, Angelo** *see* **Arkhangel'skiĭ, A. V., 2001i:54022**
**Bennett, Harold R.** (*with* Heath, Robert W.; Lutzer, David J.) GO-spaces with $\sigma$-closed discrete dense subsets. (English summary) **2001i:54033**
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**Blanck, Jens** Effective domain representations of $\mathscr{K}(X)$, the space of compact subsets. (English summary) **2001i:03092**
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**Di Maio, Giuseppe** (*with* Meccariello, Enrico) Wjisman topology. [Wjisman topology] (*see* **2001f:54021**)
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— (*with* Romaguera, Salvador) Some properties of fuzzy metric spaces. (English summary) **2001e:54008**
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**Li, Fa Chao** (*with* Qiu, Ji Qing; Zhai, Jianren) The problem of completeness for $p$-mean symmetric difference metric. (English summary) **2001h:54010**
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**McCoy, Robert A.** Spaces of semicontinuous forms. (English summary) **2001j:54012**
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**Qu, Cheng Qin** (*with* Su, Wei Yi; Xu, Yong) Moran sets in complete metric space. (English summary)
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**Seda, Anthony Karel** (*with* Hitzler, Pascal) Topology and iterates in computational logic. (English summary) **2001a:68017**
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**Shi, Fu Gui** Pointwise pseudo-metrics in $L$-fuzzy set theory. (English summary)
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**Singh, Bijendra** (*with* Chauhan, Makhan Singh) Common fixed points of compatible maps in fuzzy metric spaces. (English summary)
**Su, Wei Yi** *see* **Qu, Cheng Qin et al.**
**Tachtsis, Eleytherios** *see* **Keremedis, Kyriakos, 2001k:03103**
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— *see also* **George, Amalanathan**
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**Wolf, Reinhard Karl** Averaging distances in real quasihypermetric Banach spaces of finite dimension. (English summary) **2001f:46012**
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## 54E40 Special maps on metric spaces

**Charatonik, Janusz J.** Remarks on atomic mappings. (English summary) **2001a:54042**
**Feng, Xiu Feng** *see* **Li, Ke Dian et al., 2001a:54043**
**Li, Ke Dian** (*with* Feng, Xiu Feng; Liu, Zheng Shuai) On msss-mappings. (Chinese. English and Chinese summaries) **2001a:54043**
**Lin, Shou** (*with* Yan, Peng Fei) On sequence-covering compact mappings. (Chinese. English and Chinese summaries) **2001m:54030**
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**Odinokov, A. V.** Some factorization theorems for spaces that are close to metrizable spaces. (Russian. Russian summary) **2001d:54025**

**Rhoades, Billy E.** Minimal displacement for certain classes of mappings. (English summary) **2001d:54026**
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**Bludova, Irina V.** On absolutely bounded trivially metrizable mappings. (English summary) **2001h:54019**
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**Borubaev, A. A.** (*with* Chekeev, Asylbek A.) On the classification of complete uniformly continuous mappings. (Russian. English, Russian and Kirghiz summaries) **2001m:54006**
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**Jordan, Francis** Covering Baire 1 functions with Darboux functions and the cofinality of the ideal of meager sets. (English summary) **2001h:26006**
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— (*with* Li, Ke Dian) The sequence-covering compact images of paracompact locally compact spaces. (English summary) **2001j:54030**
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**Li, Ke Dian** *see* **Li, Jin Jin, 2001j:54030**
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**Som, Tanmoy** (*with* Das, Sakti) Some fixed point theorems on cone-valued $L$-spaces and spaces with cone-valued 2-metric. (English summary) **2001k:54071**
**Song, Jian Wei** (*with* Tymchatyn, E. D.) Free spaces. (English summary) **2001g:54011**
**Su, Yong Fu** Contractive mapping principle for semimetric spaces and existence of solutions to a class of integral equations in Orlicz spaces. (Chinese. English and Chinese summaries)
**Timm, Mathew** Domains of perfect local homeomorphisms. (English summary) **2001e:54021**
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## 54E45 Compact (locally compact) metric spaces

**Srivastava, Anjali** On singular compactification of an orbit space. (English summary)

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**Bylund, Per** (*with* Gudayol, Jaume) On the existence of doubling measures with certain regularity properties. (English summary) **2001b:28018**
**Gudayol, Jaume** *see* **Bylund, Per, 2001b:28018**
**Malešič, Jože** Continuous selections of multivalued mappings. (Slovenian. English and Slovenian summaries) **2001h:54035**
**Shakhmatov, Dmitriĭ B.** Baire isomorphisms at the first level and dimension. (English summary) **2001g:54040**

## 54E50 Complete metric spaces

**Buhagiar, D.** (*with* Yoshioka, Iwao) Sieves and completeness properties. **2001i:54029**
**Granas, Andrzej** (*with* Horvath, Charles D.) On the order-theoretic Cantor theorem. (English summary) **2001d:54027**
**Horvath, Charles D.** *see* **Granas, Andrzej, 2001d:54027**
**Jiang, Guo-Jing** On characterization of metric completeness. (English summary)
**Pareek, C. M.** More on star Čech complete spaces. (English summary) **2001g:54032**
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**Bogatyĭ, Semen A.** Compact homogeneity of the universal metric Uryson space. (Russian)
**Costantini, Camillo** (*with* Marcone, Alberto) Extensions of functions which preserve the continuity on the original domain. (English summary) **2001b:54019**
**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) On the Stone-Čech bicompactification of a bispace. (English summary) **2001a:54033**
**Gregori, Valentín** (*with* Romaguera, Salvador) Approximate quantities, hyperspaces and metric completeness. (Italian summary)
**Marcone, Alberto** *see* **Costantini, Camillo, 2001b:54019**
**Ren, Biao** (*with* Xu, Jin Hong) $n$-dimensional fuzzy metric spaces and their completeness. (Chinese. English and Chinese summaries)
**Romaguera, Salvador** *see* **García-Ferreira, Salvador et al., 2001a:54033** *and* **Gregori, Valentín**
**Sanchis, Manuel** *see* **García-Ferreira, Salvador et al., 2001a:54033**
**Scarr, Tzvi** Topological and Borel compactifications of Polish $G$-spaces. (English summary) **2001d:54032**
**Srivastava, Anjali** On singular compactification of an orbit space. (English summary)
**Sünderhauf, Philipp** Sobriety in terms of nets. (English summary) **2001j:54017**
**Xu, Jin Hong** *see* **Ren, Biao**
**Yun, Zi Qiu** On $k_r$-spaces and $k$-spaces. (English and Chinese summaries) **2001e:54022**

## 54E52 Baire category, Baire spaces

**Balcerzak, Marek** (*with* Ciesielski, Krzysztof[2]; Rogowska, Dorota) Remark on meager $\Sigma^0_2$-supported $\sigma$-ideals on the real line. (English summary) **2001e:54052**
**Chigogidze, Alex** On spaces Baire isomorphic to the powers of the real line. (English summary) **2001i:54030**
**Ciesielski, Krzysztof[2]** *see* **Balcerzak, Marek et al., 2001e:54052**
**Járai, Antal** Baire property implies continuity for solutions of functional equations—even with few variables. (English summary) **2001i:54031**
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**Rogowska, Dorota** *see* **Balcerzak, Marek et al., 2001e:54052**

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**Banakh, T. O.** (*with* Cauty, Robert) On universality of countable and weak products of sigma hereditarily disconnected spaces. (English summary) **2001m:54004**
**Berscheid, N.** Baire properties of locally convex spaces. **2001g:46007**
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**Brown, Jack B.** (*with* Elalaoui-Talibi, Hussain) Marczewski-Burstin-like characterizations of $\sigma$-algebras, ideals, and measurable functions. (English summary) **2001i:28002**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
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**Hamlett, T. R.** *see* **Janković, Dragan et al., 2001k:54004**
**Henriksen, Melvin** (*with* Kopperman, Ralph; Rayburn, Marlon; Todd, Aaron R.) Oxtoby's pseudocompleteness revisited. (English summary) **2001a:54005**
**Herrlich, Horst** (*with* Keremedis, Kyriakos) Products, the Baire category theorem, and the axiom of dependent choice. (English summary) **2001e:03089**
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**Kahane, Jean-Pierre** Baire's category theorem and trigonometric series. **2001f:42012**
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**Kenderov, Petar S.** (*with* Kortezov, Ivaylo S.; Moors, Warren B.) Continuity points of quasi-continuous mappings. (English summary) **2001m:54008**
**Keremedis, Kyriakos** On Weierstrass compact pseudometric spaces and a weak form of the axiom of choice. (English summary) **2001h:03093**
— *see also* **Herrlich, Horst**, **2001e:03088**; **2001e:03089** *and* **2001h:54013**
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**Pореda, Wiesława** (*with* Wagner-Bojakowska, Elżbieta) On the measurable boundaries of real functions. (Polish summary) **2001f:28006**
**Preuß, Gerhard** Completion of semiuniform convergence spaces. (English summary) **2001k:54002**
**Rayburn, Marlon** *see* **Henriksen, Melvin et al., 2001a:54005**
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**Sánchez Ruiz, Luis M.** *see* **Kąkol, Jerzy et al., 2001g:46006**
**Shakhmatov, Dmitriĭ B.** Baire isomorphisms at the first level and dimension. (English summary) **2001g:54040**
**Terada, Toshiji** (*with* Yajima, Yukinobu) Closure-preserving covers by nowhere dense sets. (English summary)
**Todd, Aaron R.** *see* **Henriksen, Melvin et al., 2001a:54005**
**Troallic, Jean Pierre** Boundedness in $\mathscr{C}_p(X, Y)$ and equicontinuity. (English summary) **2001h:54022**
**Uspenskiĭ, Vladimir V.** A note on a question of R. Pol concerning light maps. (English summary) **2001a:54019**
**Wagner-Bojakowska, Elżbieta** *see* **Pореda, Wiesława, 2001f:28006**
**Yajima, Yukinobu** *see* **Terada, Toshiji**
**Zakrzewski, Piotr** Extending Baire property by countably many sets. (English summary) **2001c:03083**
— Universally meager sets. (English summary) **2001m:03097**
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## 54E55 Bitopologies

**Aoki, Katuhiko** *see* **Chae, Gyu-Ihn et al.**
**Balasubramanian, G.** *see* **Santhileela, D.**
**Chae, Gyu-Ihn** (*with* Maki, H.; Aoki, Katuhiko; Mizuta, Yoshihito) More on quasi semi-open sets.
**Das, Pratulananda** *see* **Lahiri, B. K.**
**Dochviri, I.** On mappings of bitopological spaces. (English summary)
— On semicompact and precompact bitopological spaces. (English summary)
— On some properties of semi-compact and $S$-closed bitopological spaces. (English and Georgian summaries)
**Fukutake, T.** (*with* Sundaram, Palaniappan; Nagaveni, N.) On weakly generalized closed sets, weakly generalized continuous maps and $T_{wg}$-spaces in bitopological spaces. (English summary)
**García-Ferreira, Salvador** (*with* Romaguera, Salvador; Sanchis, Manuel) Bounded subsets and Grothendieck's theorem for bispaces. (English summary) **2001b:54037**
**Gupta, M. K.** *see* **Lal, Sunder**
**Ivanov, Aleksandr Aleksandrovich** Bitopologies of products and ratios. (Russian. English and Russian summaries) **2001h:54056**
**Khmylko, N. V.** On the concept of exactness of bitopological extensions. (Russian. English and Russian summaries)
**Kovár, M. M.** A generalization of $\theta$-regularity and bitopological covering properties. (English summary) (*see* **2001h:54003**)
**Lahiri, B. K.** (*with* Das, Pratulananda) Certain bitopological concepts in a bispace. (English summary)
**Lal, Sunder** (*with* Gupta, M. K.) On some separation properties on bitopological spaces. (English summary)
**Maki, H.** *see* **Chae, Gyu-Ihn et al.**
**Mizuta, Yoshihito** *see* **Chae, Gyu-Ihn et al.**
**Nagaveni, N.** *see* **Fukutake, T. et al.**
**Romaguera, Salvador** (*with* Salbany, Sergio) Dieudonné complete bispaces. (English summary) **2001j:54035**
— *see also* **García-Ferreira, Salvador et al., 2001b:54037**
**Salbany, Sergio** On injective topological spaces and bispaces. (English summary) (*see* **2001f:54001**)
— *see also* **Romaguera, Salvador, 2001j:54035**
**Sanchis, Manuel** *see* **García-Ferreira, Salvador et al., 2001b:54037**
**Santhileela, D.** (*with* Balasubramanian, G.) Basic disconnectedness in bitopological spaces. (English summary)
**Sundaram, Palaniappan** *see* **Fukutake, T. et al.**
**Yano, Masamichi** A generalization of fundamental groups to bitopological spaces. (English summary)

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**Abd El-Hakeim, K. M.** (*with* Zeyada, F. M.) Some bifuzzy topologies induced by a fuzzifying topology. I. Fundamental concepts. (English summary)
**Abd-Ellatif, A. A.** *see* **Mahmoud, F. S. et al.**
**Abu Safiya, A. S.** Lower separation axioms in bifuzzy topological spaces. (English summary)
**Burdick, Bruce S.** Characterizations of hyperspaces of bitopological spaces. (English summary) **2001i:54009**
**Das, N. R.** (*with* Das, Pankaja) Fuzzy bitopological space induced by fuzzy quasi pseudo norm and its conjugate. (English summary)
**Das, Pankaja** *see* **Das, N. R.**
**Das, R. K.** (*with* Singh, M. K.) Fuzzy bitopological dynamics. (English summary)
**Fath Alla, M. A.** *see* **Mahmoud, F. S. et al.**
**Han, Hyuk** *see* **Lee, Eun Pyo et al.**
**Henriksen, Melvin** (*with* Kopperman, Ralph; Rayburn, Marlon; Todd, Aaron R.) Oxtoby's pseudocompleteness revisited. (English summary) **2001a:54005**
**Holá, Ľubica** (*with* Künzi, Hans-Peter A.) Properties related to compactness in hyperspaces. (English summary) **2001h:54015**
**Im, Young-Bin** *see* **Lee, Eun Pyo et al.**
**Khastgir, Anuruddha S.** (*with* Srivastava, Arun Kumar[2]) On two epireflective subcategories of the category of $2T_0$-fuzzy bitopological spaces. (English summary) **2001k:54011**
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— (*with* Ramadan, A. A.; Abbas, S. E.) FP $\delta$-continuous functions in fuzzy bitopological spaces. (English summary)
— (*with* Ramadan, A. A.; Abbas, S. E.) FP strongly continuity, FP $\theta$-continuity and FP weakly $\theta$-continuity. (English summary)
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**Kim, Young Sun** *see* **Kim, Yong Chan[2]**
**Kopperman, Ralph** *see* **Henriksen, Melvin et al., 2001a:54005**
**Künzi, Hans-Peter A.** *see* **Holá, Ľubica, 2001h:54015**
**Lee, Eun Pyo** (*with* Im, Young-Bin; Han, Hyuk) Semiopen sets on smooth bitopological spaces. (English summary)
**Mahmoud, F. S.** (*with* Fath Alla, M. A.; Abd-Ellatif, A. A.) Fuzzy strongly semiopen sets and fuzzy strong semicontinuity in fuzzy bitopological spaces. (English summary)
**Pushpalatha, A.** *see* **Sundaram, Palaniappan**
**Ramadan, A. A.** (*with* Abbas, S. E.) On several types of continuity in fuzzy bitopological spaces. (English summary)
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**Sampath Kumar, S.** Connectedness in fuzzy bitopological spaces. II. (English summary)
— Fuzzy pairwise semiregularization spaces and mappings. (English summary)
**Singh, M. K.** *see* **Das, R. K.**
**Srivastava, Arun Kumar[2]** *see* **Khastgir, Anuruddha S., 2001k:54011**
**Srivastava, Manjari** (*with* Srivastava, Rekha) On fuzzy pairwise-$T_0$ and fuzzy pairwise-$T_1$ bitopological spaces. (English summary)
— *see also* **Srivastava, Rekha**
**Srivastava, Rekha** (*with* Srivastava, Manjari) On compactness in bifuzzy topological spaces. (English summary)
— *see also* **Srivastava, Manjari**
**Sundaram, Palaniappan** (*with* Pushpalatha, A.) Generalized fuzzy continuity in fuzzy bitopological spaces. (English summary)
**Todd, Aaron R.** *see* **Henriksen, Melvin et al., 2001a:54005**
**Zahran, A. M.** On some weakly forms of fuzzy continuous mappings in fuzzy bitopological spaces. (English summary)
**Zeyada, F. M.** *see* **Abd El-Hakeim, K. M.**

## 54E70 Probabilistic metric spaces

**Klement, Erich Peter** (*with* Mesiar, Radko; Pap, Endre) Generated triangular norms. (English summary) **2001b:54038**
**Liu, Ming-xue** A representation theorem for probabilistic metric spaces in general. (English summary) **2001h:54057**
**Mesiar, Radko** *see* **Klement, Erich Peter et al., 2001b:54038**
**Pap, Endre** *see* **Klement, Erich Peter et al., 2001b:54038**
**Părău, Emilian** (*with* Radu, Viorel) On the triangle inequality and contractive mappings in probabilistic metric spaces. (English summary)
**Radu, Viorel** *see* **Părău, Emilian**
**Ren, Jin Shen** *see* **Zhu, Lin Hu et al.**
**Sadovnichiĭ, Yu. V.** On some categorical properties of the functor $U_R$. (English summary) **2001e:54054**
**Shen, Yue Bo** *see* **Zhang, Geng Sheng et al.**
**Wang, Chen Liang** *see* **Zhang, Geng Sheng et al.**
**Yang, Ya Li** *see* **Zhu, Lin Hu et al.**
**Zhang, Geng Sheng** (*with* Wang, Chen Liang; Shen, Yue Bo) Necessary and sufficient conditions for $\tau_{TL}$ to be a weakly $T$-function. (Chinese. English and Chinese summaries)
**Zhu, Lin Hu** (*with* Ren, Jin Shen; Yang, Ya Li) Probabilistic metric space theory in China in the last twenty years. (Chinese. English and Chinese summaries)

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**Bulacu, Fevronia** *see* **Preda, Vasile, (2001g:00020)**
**Cho, Yeol Je** *see* **Zhang, Shi Sheng et al., 2001b:54054**
**Choudhury, Binayak S.** A unique common fixed point theorem for a sequence of self-mappings in Menger spaces. (English summary)
**Ćirić, Ljubomir B.** (*with* Milovanović-Arandelović, Marina M.) Common fixed point theorem for $R$-weak commuting mappings in Menger spaces. (English summary)
**Gähler, W.** General topology—the monadic case, examples, applications. (English summary) **2001h:54008**
**Hadžić, Olga** (*with* Žikić, Tatjana) A theorem on coincidence point for multivalued mappings in a class of probabilistic metric spaces. (English summary)

**Höhle, Ulrich** Characterization of $L$-topologies by $L$-valued neighborhoods.
**Jiang, Exi** Sequences of linear operators on M-PN spaces. (Chinese. English and Chinese summaries) **2001h:47125**
**Jung, Jong Soo** *see* **Zhang, Shi Sheng et al., 2001b:54054**
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**Lin, Xiaoai** On the independence of correspondences. (English summary) **2001h:28014**
**Milovanović-Arandelović, Marina M.** *see* **Ćirić, Ljubomir B.**
**Pathak, Hemant Kumar** Probabilistic contractor couples and solutions of nonlinear equations for fuzzy mappings. (English summary) **2001h:47126**
**Preda, Vasile** (*with* Bulacu, Fevronia) The space of probability distributions—non-Euclidean Riemann variety. (*see* **2001g:00020**)
**Son, Gui An** *see* **Xu, Xiao Li, 2001j:47093**
**Tran Thi Lan Anh** Some common fixed point theorems for mappings in metric and Menger spaces. (English summary)
**Wu, Xian[3]** *see* **Zhang, Shi Sheng et al., 2001b:54054**
**Xu, Xiao Li** (*with* Son, Gui An) A kind of set-valued operator equations in Menger PN-spaces. (Chinese. English and Chinese summaries) **2001j:47093**
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**Zhang, De Xue** Subcategories of fuzzy convergence spaces. (English summary) **2001e:54010**
**Zhang, Shi Sheng** (*with* Cho, Yeol Je; Lee, Byung Soo; Wu, Xian[3]; Jung, Jong Soo; Kang, Shin Min) Some nonempty intersection theorems in probabilistic interval spaces with applications. (English summary) **2001b:54054**
**Žikić, Tatjana** *see* **Hadžić, Olga**

## 54E99 None of the above, but in this section

**Gao, Zhi Min** *see* **Qu, Zhi Bin, 2001g:54033**
**Lin, Shou** *see* **Yan, Peng Fei, (2001g:54003)**
**Qu, Zhi Bin** (*with* Gao, Zhi Min) Spaces with compact-countable $k$-networks. (English summary) **2001g:54033**
**Sakai, Masami** On spaces with a point-countable compact $k$-network. (English summary) **2001h:54058**
**Yan, Peng Fei** (*with* Lin, Shou) Point-countable $k$-networks, $cs^*$-networks and $\alpha_4$-spaces. (English summary) (*see* **2001g:54003**)

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**Chen, Xiang Ping[2]** $T_3$ and $T_4$ Fréchet ($V$) spaces. (Chinese. English and Chinese summaries) **2001a:54029**
**Edalat, Abbas** Semi-pullbacks and bisimulation in categories of Markov processes. (English summary) **2001f:18001**
**Junnila, Heikki J. K.** *see* **Yun, Zi Qiu, 2001k:54048**
**Lowen, Robert** (*with* Wuyts, P.) A complete classification of the simultaneously bireflective and bicoreflective subconstructs of approach spaces. (English summary) **2001d:54006**
— (*with* Sioen, M.) Approximations in functional analysis. (English summary) **2001c:46035**
**Mizokami, Takemi** *see* **Shimane, Norihito, (2001g:54003)**
**Shimane, Norihito** (*with* Mizokami, Takemi) On the embedding and developability of mapping spaces with compact open topology. (English summary) (*see* **2001g:54003**)
**Sioen, M.** *see* **Lowen, Robert, 2001c:46035**
**Tyugashov, G. S.** $k$-expansion of topological spaces, and convexity. (Russian) **2001b:54040**
**Wuyts, P.** *see* **Lowen, Robert, 2001d:54006**
**Yun, Zi Qiu** (*with* Junnila, Heikki J. K.) On a special metric. (English summary) **2001k:54048**

# 54Fxx Special properties

## 54F05 Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces [see also 06B30, 06F30]

**Bennett, Harold R.** (*with* Heath, Robert W.; Lutzer, David J.) GO-spaces with $\sigma$-closed discrete dense subsets. (English summary) **2001i:54033**
**Bosi, Gianni** (*with* Isler, R.) Separation axioms in topological preordered spaces and the existence of continuous order-preserving functions. (English summary) **2001m:54032**
**Cater, Frank S.** On order topologies and the real line. (English summary) **2001f:54034**
**David, Elias** Scott spaces and sober spaces. (English summary) **2001b:54039**
**Hanna, A. J.** (*with* McMaster, T. Brian M.) Splittability over linear orderings. (English summary) **2001k:54049**
**Heath, Robert W.** *see* **Bennett, Harold R. et al., 2001i:54033**
**Herden, G.** (*with* Pallack, A.) Useful topologies and separable systems. (English summary) **2001k:54050**
**Hernández García, Constancio** *see* **Tkachenko, Mikhail G. et al., (2001d:00036)**
**Isler, R.** *see* **Bosi, Gianni, 2001m:54032**
**Lutzer, David J.** *see* **Bennett, Harold R. et al., 2001i:54033**
**Marron, Dermot J.** (*with* McMaster, T. Brian M.) Splittability for ordered topological spaces. (Italian summary) **2001f:54035**
**McMaster, T. Brian M.** *see* **Marron, Dermot J., 2001f:54035** *and* **Hanna, A. J., 2001k:54049**
**Pallack, A.** *see* **Herden, G., 2001k:54050**
**Tamariz Mascarúa, Ángel** Linearly ordered topological spaces. (Spanish. Spanish summary) (*see* **2001d:00037**)
**Tanaka, Yoshio[1]** GO-spaces and orderability of compactifications. (*see* **2001m:54001**)
**Tkachenko, Mikhail G.** (*with* Villegas Silva, Luis Miguel; Torres Falcón, Yolanda; Hernández García, Constancio) Introduction to linearly ordered spaces. (Spanish. Spanish summary) (*see* **2001d:00036**)
**Torres Falcón, Yolanda** *see* **Tkachenko, Mikhail G. et al., (2001d:00036)**
**Tyugashov, G. S.** $k$-expansion of topological spaces, and convexity. (Russian) **2001b:54040**
**Villegas Silva, Luis Miguel** *see* **Tkachenko, Mikhail G. et al., (2001d:00036)**
**Xu, Xiao Quan** Strictly complete regularity of the Lawson topology on a continuous poset. (English summary) **2001c:54026**

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**Alvarez-Manilla, M.** (*with* Edalat, Abbas; Saheb, Nasser) An extension result for continuous valuations. (English summary) **2001a:60003**
**Arenas, Francisco G.** (*with* Puertas, María Luz) Transfinite Krull dimension. (English summary) **2001h:54060**
**Belaid, Karim** (*with* Cherif, Bahri; Echi, Othman) Quasi-spectral binary relations and ordered disjoint unions. (English summary) **2001k:06011**
**Bludova, Irina V.** (*with* Nordo, Giorgio; Pasynkov, Boris A.) On the homeomorphism of spaces and Magill-type theorems. (English summary) **2001m:54023**
**Buhagiar, D.** (*with* Miwa, Takuo) On superparacompact and Lindelöf GO-spaces. (English summary) **2001a:54032**
**Cherif, Bahri** *see* **Belaid, Karim et al., 2001k:06011**
**Ciesielski, Krzysztof[2]** (*with* Flagg, R. C.; Kopperman, Ralph) Characterizing topologies with bounded complete computational models. (English summary) **2001b:06033**
**Daniel, Dale** Companion theorems for monotone normality and the Hahn-Mazurkiewicz theorem. (English summary) **2001g:54036**
— (*with* Treybig, L. B.) A decomposition theorem for locally connected Suslinian continua. (English summary) **2001k:54052**
**Echi, Othman** *see* **Belaid, Karim et al., 2001k:06011**
**Edalat, Abbas** *see* **Alvarez-Manilla, M. et al., 2001a:60003**
**Erné, Marcel** (*with* Zhao, Dong-sheng) $\mathscr{Z}$-join spectra of $\mathscr{Z}$-supercompactly generated lattices. (English summary) **2001k:06012**
**Ershov, Yurii Leonidovich** The injective hull and the bc-hull of a topological space. (English summary) (*see* **2001i:00035**)
**Farley, Jonathan David** Coproducts of bounded distributive lattices: cancellation. A problem from the 1981 Banff Conference on Ordered Sets. (English summary) **2001m:06020**
**Fishburn, Peter C.** Cancellation conditions for finite two-dimensional additive measurement. (English summary) **2001m:91148**
**Flagg, R. C.** *see* **Ciesielski, Krzysztof[2] et al., 2001b:06033**
**Gierz, Gerhard** (*with* Stralka, Albert R.) Quotients of full sublattices of Euclidean space. (English summary) **2001m:08005**
**Kemp, Paula** Retrieving a topological space from its lattice of open sets. (English summary)
**Kogut, P. I.** On the topological convergence of epigraphs in partially ordered vector spaces. (Ukrainian. English and Russian summaries) **2001f:46009**
**Kopperman, Ralph** *see* **Ciesielski, Krzysztof[2] et al., 2001b:06033**
**Machara, Ryuji** (*with* Tokumoto, Hirokazu) Continuous images of compact ordered spaces. **2001i:54035**
**Miwa, Takuo** *see* **Buhagiar, D., 2001a:54032**
**Nordo, Giorgio** *see* **Bludova, Irina V. et al., 2001m:54023**
**Okunev, Oleg** (*with* Tamariz Mascarúa, Ángel) Some results and problems about weakly pseudocompact spaces. (English summary) **2001c:54023**
**Olejček, Vladimír** The order topology on a lattice and its MacNeille completion. (English summary) (*see* **2001e:81003**)
**Ori, Ramesh G.** (*with* Xu, Hong-Kun) The set-valued Knaster-Tarski theorem in semi-ordered topological spaces with applications. (English summary) **2001c:54035**
**Palko, Vladimír** Topological difference posets. (English summary) **2001i:06008**
**Pasynkov, Boris A.** *see* **Bludova, Irina V. et al., 2001m:54023**
**Puertas, María Luz** *see* **Arenas, Francisco G., 2001b:54060**
**Purisch, S.** A history of results on orderability and suborderability. **2001g:54002**
**Reinhold, Jürgen** Finite intervals in the lattice of topologies. (English summary) **2001e:54003**
**Saheb, Nasser** *see* **Alvarez-Manilla, M. et al., 2001a:60003**
**Song, Yu Jing** *see* **Xie, Lin[1], 2001d:06014**
**Stralka, Albert R.** *see* **Gierz, Gerhard, 2001m:08005**
**Tamariz Mascarúa, Ángel** *see* **Okunev, Oleg, 2001c:54023**
**Tokumoto, Hirokazu** *see* **Machara, Ryuji, 2001i:54035**
**Treybig, L. B.** *see* **Daniel, Dale, 2001k:54052**
**Turinici, Mihai** Variational principles on semi-metric structures. (English summary)
**Windels, Bart** The Scott approach structure: an extension of the Scott topology for quantitative domain theory. (English summary) **2001h:54048**
**Xie, Lin[1]** (*with* Song, Yu Jing) On distributive complete lattices for which the Scott topology has a basis of open filters. (Chinese. English and Chinese summaries) **2001d:06014**
**Xu, Hong-Kun** *see* **Ori, Ramesh G., 2001c:54035**
**Xu, Luo Shan** Consistently continuous posets and their directed completions. (Chinese. English and Chinese summaries) **2001g:06008**
**Yang, Zhongqiang** Normally supercompact spaces and completely distributive posets. (English summary) **2001k:54034**
**Zhao, Dong-sheng** *see* **Erné, Marcel, 2001k:06012**

## 54F15 Continua and generalizations

**Arenas, Francisco G.** (*with* Sánchez-Granero, M. A.) Every graph is a self-similar set. (English and Spanish summaries) **2001g:54034**
**Bajguz, Wiesław** Disconnections of plane continua. (English summary) **2001j:54036**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.) A weaker form of the property of Kelley. (English summary) **2001f:54037**
— (*with* Charatonik, Włodzimierz J.) Smoothness and the property of Kelley. (English summary) **2001h:54059**
— (*with* Charatonik, Włodzimierz J.; Krupski, Paweł) Dendrites and light open mappings. (English summary) **2001c:54027**
— (*with* Charatonik, Włodzimierz J.) Continua determined by mappings. (English summary) **2001f:54036**
— On chainable continua with almost unique hyperspace. (English summary) **2001g:54035**

— (*with* Charatonik, Włodzimierz J.; Illanes, Alejandro) Property of Kelley for confluent retractable continua. (English summary) **2001k:54051**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J. et al., 2001c:54027; 2001f:54036; 2001f:54037; 2001h:54059** *and* **2001k:54051**
**Daniel, Dale** Companion theorems for monotone normality and the Hahn-Mazurkiewicz theorem. (English summary) **2001g:54036**
— (*with* Treybig, L. B.) A decomposition theorem for locally connected Suslinian continua. (English summary) **2001k:54052**
**Darji, Udayan B.** Complexity of hereditarily decomposable continua. (English summary) **2001a:54044**
**Dow, Alan** (*with* Hart, Klaas Pieter) A universal continuum of weight $\aleph$. (English summary) **2001g:54037**
**Escobedo Conde, Raúl** Quasi-span for continua. (English summary) **2001i:54034**
**Hart, Klaas Pieter** *see* **Dow, Alan, 2001g:54037**
**Illanes, Alejandro** A retractible non-locally connected dendroid. (English summary) **2001d:54028**
— A characterization of dendrites with the periodic-recurrent property. (English summary) **2001j:54037**
— *see also* **Charatonik, Janusz J. et al., 2001k:54051**
**Ingram, W. T.** Indecomposable continua arising in inverse limits on [0, 1]. (English summary) **2001k:54053**
**Krupski, Paweł** *see* **Charatonik, Janusz J. et al., 2001c:54027**
**Lončar, Ivan** A characterization of continuous images of arcs by their images of weight $\leq \aleph_1$. (English summary) **2001b:54041**
**Maehara, Ryuji** (*with* Tokumoto, Hirokazu) Continuous images of compact ordered spaces. **2001i:54035**
**Mahavier, William S.** Joinable continua—an application of inverse limits. (English summary) **2001k:54054**
**Nadler, Sam B., Jr.** Arc-like and circle-like almost continuous images of Peano continua. (English summary) **2001k:54055**
**Niu, Ying Xuan** (*with* Ye, Xiang Dong[1]) On some questions of Barge and Toledo. (English summary) **2001i:54036**
**Pyrih, Pavel** Non-weakly Suslinian example. (English summary)
— An example of self-homeomorphic dendrite not strongly self-homeomorphic. (English summary) **2001i:54037**
**Ryden, David J.** Irreducibility of inverse limits on intervals. (English summary) **2001k:54056**
**Sánchez-Granero, M. A.** *see* **Arenas, Francisco G., 2001g:54034**
**Tokumoto, Hirokazu** *see* **Maehara, Ryuji, 2001i:54035**
**Treybig, L. B.** *see* **Daniel, Dale, 2001k:54052**
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**Ancel, Fredric D.** (*with* Nadler, Sam B., Jr.) Cones that are cells, and an application to hyperspaces. (English summary) **2001c:54005**
**Arai, Tatsuya** (*with* Chinen, Naotsugu; Kato, Hisao; Park, Jong-Jin; Yokoi, Katsuya) The dynamics of homeomorphisms of hereditarily decomposable $\theta^+$-continua. (English summary) **2001g:54043**
— (*with* Chinen, Naotsugu; Kato, Hisao; Yokoi, Katsuya) The construction of $P$-expansive maps of regular continua: a geometric approach. (English summary) **2001h:37082**
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**Barge, Marcy** (*with* Williams, R. F.) Classification of Denjoy continua. (English summary) **2001h:37032**
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**Buhagiar, D.** (*with* Miwa, Takuo) On superparacompact and Lindelöf GO-spaces. (English summary) **2001a:54032**
**Bykov, A. I.** Fibrant extensions and conditions of movability. (English summary) **2001g:54020**
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**Chinen, Naotsugu** *see* **Arai, Tatsuya et al., 2001g:54043** *and* **2001h:37082**
**Grace, E. E.** (*with* Vought, E. J.) Hereditarily weakly confluent maps and a characterization of class HW. (English summary) **2001m:54012**
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**Kato, Hisao** (*with* Levin, M. A.) Open maps on manifolds which do not admit disjoint closed subsets intersecting each fiber. (English summary) **2001b:54017**
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**Krasinkiewicz, Józef** On the fiber product of mappings into the unit interval. (English summary) **2001h:54021**
**Krupski, Paweł** Hyperspaces of various locally connected subcontinua. **2001j:54006a**
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**Levin, M. A.** *see* **Kato, Hisao, 2001b:54017**
**Lončar, Ivan** $\aleph_1$-directed inverse systems of continuous images of arcs. (English summary) **2001g:54009**
— The property of Kelley in nonmetric continua. (English summary) **2001h:54014**
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**Makuchowski, Władysław** *see* **Charatonik, Włodzimierz J., 2001j:54005**
**Martínez-de-la-Vega, Verónica** *see* **Illanes, Alejandro, 2001c:54006**
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**Minc, Piotr** Embedding of simplicial arcs into the plane. (English summary) **2001e:54026**
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**Opěla, David** (*with* Pyrih, Pavel; Šámal, Robert) An example of openly minimal dendrite. (English summary) **2001j:54042**
**Park, Jong-Jin** *see* **Arai, Tatsuya et al., 2001g:54043**
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## 54F35 Higher-dimensional local connectedness [see also 55Mxx, 55Nxx]

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**Arenas, Francisco G.** Pseudo-distance dependent dimensions. (English summary) **2001b:54042**
— (*with* Chatyrko, V. A.; Puertas, María Luz) Transfinite extension of Steinke's dimension. (English summary) **2001h:54061**
— (*with* Puertas, María Luz) Transfinite Krull dimension. (English summary) **2001h:54060**
**Attia, H.** On relative dimensions, inductive compactness and defects of spaces. (English summary) **2001j:54038**
**Brechner, Beverly L.** (*with* Kawamura, Kazuhiro) On the dimension of a homeomorphism group. (English summary) **2001e:54055**
**Cai, Yue Jiang** *see* **Wang, Bao-Ling**
**Charalambous, M. G.** A factorization theorem for the transfinite kernel dimension of Tychonoff spaces. (English summary) **2001b:54043**
**Chatyrko, V. A.** On locally $r$-incomparable families of infinite-dimensional Cantor manifolds. (English summary) **2001j:54040**
— (*with* Kozlov, Konstantin L.) On (transfinite) small inductive dimension of products. (English summary) **2001h:54062**
— On factorization theorem for transfinite dimension $\dim_C$. (English summary) **2001j:54039**
— On conforming axiomatics. (English summary) **2001c:54028**
— (*with* Kozlov, Konstantin L.; Pasynkov, Boris A.) On an approach to constructing compacta with different dimensions dim and ind. (English summary) **2001g:54038**
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**Ciesielski, Krzysztof[2]** (*with* Wojciechowski, Jerzy) Topological dimension and sums of connectivity functions. (English summary) **2001k:54057**

**Dobrowolski, Tadeusz** (*with* Kulesza, John) The topology of a subset of $l_p$ as $p$ is varied. (English summary) **2001e:54056**
**Fedorchuk, V. V.** (*with* van Mill, Jan) Dimensionsgrad for locally connected Polish spaces. (English summary) **2001a:54045**
**Georgiou, D. N.** (*with* Iliadis, Stavros) Rational $n$-dimensional spaces and the property of universality. (Russian. English and Russian summaries) **2001e:54057**
**Hattori, Yasunao** $K$-approximations and strongly countable-dimensional spaces. **2001a:54046**
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**Iliadis, Stavros** *see* **Georgiou, D. N., 2001e:54057**
**Kawamura, Kazuhiro** *see* **Brechner, Beverly L., 2001e:54055**
**Koyama, Akira** Refinable maps in dimension theory. II. (English summary)
**Kozlov, Konstantin L.** *see* **Chatyrko, V. A. et al., 2001g:54038** *and* **2001h:54062**
**Kulesza, John** On metrizable spaces in dimension theory. (English summary) (*see* **2001m:54001**)
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**Levin, M. A.** On extensional dimension of maps. (English summary) **2001k:54058**
**Lipartelliani, A.** Additional properties for large inductive dimension in the classes of normal spaces. (English summary)
— Axiomatic characterization of the dimension of closed mappings of spaces with countable bases. (English summary)
**Mardešić, Sibe** Extension dimension of inverse limits. (English summary) **2001i:54038**
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**Miyata, Takahisa** Moore spaces and cohomological dimension. (English summary) **2001h:54063**
**Pankov, M. A.** Projections of $k$-dimensional subsets of $\mathbf{R}^n$ onto $k$-dimensional planes and irregular subsets of the Grassmanian manifolds. (English summary) **2001j:54041**
**Pasynkov, Boris A.** On the geometry of continuous mappings of countable functional weight. (Russian. English and Russian summaries) **2001i:54039**
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**Pentsak, Eugen** (*with* Zarichnyĭ, M. M.) On strongly universal $k_\omega$-spaces related to transfinite inductive and cohomological dimension. (English summary) **2001g:54039**
**Pol, Elżbieta** Fibre spaces of high dimension with 0-dimensional bases and fibres homeomorphic to the irrationals. (English summary)
**Puertas, María Luz** *see* **Arenas, Francisco G. et al., 2001h:54060** *and* **2001h:54061**
**Qu, Cheng Qin** (*with* Su, Wei Yi; Xu, Yong) Moran sets in complete metric space. (English summary)
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**Tsereteli, I.** The analogue of W. Hurewicz's inequality and on one problem of A. V. Arkhangel'skiĭ. (English summary) **2001m:54033**
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**Wojciechowski, Jerzy** *see* **Ciesielski, Krzysztof², 2001k:54057**
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**Bogatyĭ, Semen A.** (*with* Fedorchuk, V. V.; van Mill, Jan) On mappings of compact spaces into Cartesian spaces. (English summary) **2001h:54027**
**Bylund, Per** (*with* Gudayol, Jaume) On the existence of doubling measures with certain regularity properties. (English summary) **2001b:28018**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
**Crilly, Tony** The emergence of topological dimension theory. **2001i:54002**
**Dranishnikov, Alexander** On the dimension of the product of two compacta and the dimension of their intersection in general position in Euclidean space. (English summary) **2001j:55002**
— (*with* Dydak, Jerzy) Extension theory of separable metrizable spaces with applications to dimension theory. (English summary) **2001f:55002**
**Dydak, Jerzy** (*with* Koyama, Akira) Compacta not embeddable into Cartesian products of curves. (English summary) **2001m:55003**
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**Kardos, Judit** Hausdorff dimension of symmetric perfect sets. (English summary) **2001e:28013**
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**Krzempek, Jerzy** Compositions of simple maps. (English summary) **2001b:54018**
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**Martio, Olli** (*with* Ryazanov, Vladimir I.) On Chernavskiĭ's theorem. (Russian) **2001c:57027**
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**Odinokov, A. V.** Some factorization theorems for spaces that are close to metrizable spaces. (Russian. Russian summary) **2001d:54025**
**Pol, Elżbieta** Two examples of perfectly normal spaces. (English summary) **2001m:54019**
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**Rubin, Leonard R.** *see* **Ivanšić, Ivan et al., 2001d:55005**
**Ryazanov, Vladimir I.** *see* **Martio, Olli, 2001c:57027**
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**Tarrés i Freixenet, Juan** On higher-dimensional spaces. (Spanish) (*see* **2001h:00039**)
**Tsereteli, I.** On continuous one-to-one mappings of spaces with finite order remainder in sense of H. Inassaridze. (English summary)
**Uspenskiĭ, Vladimir V.** A note on a question of R. Pol concerning light maps. (English summary) **2001a:54019**
**Žáčik, Tibor** *see* **Mišik, Ladislav, Jr., 2001h:40005**
**Zarichnyĭ, M. M.** Extension property and ANR-systems. (English summary) **2001e:54025**
— *see also* **Banakh, T. O., 2001b:54012**

## 54F50 Spaces of dimension $\leq 1$; curves, dendrites [see also 26A03]

**Arai, Tatsuya** (*with* Chinen, Naotsugu; Suda, Takayuki) Continuous maps of dendrites with finite branch points and nonwandering sets. (*see* **2001m:54001**)
**Azevedo Breda, Ana M. R.** (*with* de Carvalho, Francisco J. Craveiro; Wegner, Bernd) Products, covering spaces and group actions for locally Sierpinski spaces. (English summary) **2001b:54044**
**de Carvalho, Francisco J. Craveiro** *see* **Azevedo Breda, Ana M. R. et al., 2001b:54044**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.) Dendrites. (English summary) **2001f:54038**
— On generalized rigidity. (English summary) **2001k:54060**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J., 2001f:54038**
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**Macías Alvarez, Sergio** (*with* Oversteegen, L. G.; Widener, M. P.) Confluent images of the hairy arc. (English summary) **2001d:54029**
**Ohta, Haruto** (*with* Ono, Jin) The unique midpoint property of a subspace of the real line. (English summary) **2001e:54058**
**Ono, Jin** *see* **Ohta, Haruto, 2001e:54058**
**Opěla, David** (*with* Pyrih, Pavel; Šámal, Robert) An example of openly minimal dendrite. (English summary) **2001j:54042**
**Oversteegen, L. G.** *see* **Macías Alvarez, Sergio et al., 2001d:54029**
**Pyrih, Pavel** *see* **Opěla, David et al., 2001j:54042**
**Roitman, Judith** The combinatorics of sub-Ostaszewski spaces. (English summary) **2001m:54035**
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**Suda, Takayuki** *see* **Arai, Tatsuya et al., (2001m:54001)**
**Wegner, Bernd** *see* **Azevedo Breda, Ana M. R. et al., 2001b:54044**
**Widener, M. P.** *see* **Macías Alvarez, Sergio et al., 2001d:54029**
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— (*with* Charatonik, Włodzimierz J.; Krupski, Paweł) Dendrites and light open mappings. (English summary) **2001c:54027**
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**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J. et al., 2001c:54027** *and* **2001h:54059**
**Daniel, Dale** Companion theorems for monotone normality and the Hahn-Mazurkiewicz theorem. (English summary) **2001g:54036**
**Grace, E. E.** (*with* Vought, E. J.) Hereditarily weakly confluent maps and a characterization of class HW. (English summary) **2001m:54012**
**Illanes, Alejandro** A retractible non-locally connected dendroid. (English summary) **2001d:54028**
— A characterization of dendrites with the periodic-recurrent property. (English summary) **2001j:54037**
— (*with* Martínez-de-la-Vega, Verónica) Product topology in the hyperspace of subcontinua. (English summary) **2001c:54006**
**Kennedy, Judy A.** (*with* Yorke, James A.) Topological horseshoes. (English summary) **2001h:37037**
**Krasinkiewicz, Józef** Path-lifting property for 0-dimensional confluent mappings. (English summary) **2001h:54020**
**Krupski, Paweł** *see* **Charatonik, Janusz J. et al., 2001c:54027**
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**Latif, Raja Mohammad** Semi-open sets in locally connected and locally pathwise connected metric spaces. (English summary) **2001e:54014**
**Lemin, A. Yu.** (*with* Lemin, Vladimir A.) On a universal ultrametric space. (English summary) **2001b:54035**
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**Machara, Ryuji** (*with* Tokumoto, Hirokazu) Continuous images of compact ordered spaces. **2001i:54035**
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**Zhu, Pei Yong** The characterizations on a perfect subparacompact space. (English summary) **2001h:54039**

## 54F55 Unicoherence, multicoherence

**Castañeda, E.** A unicoherent continuum whose second symmetric product is not unicoherent. (English summary) **2001a:54048**

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**Grace, E. E.** (*with* Vought, E. J.) Hereditarily weakly confluent maps and a characterization of class HW. (English summary) **2001m:54012**
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**Song, Jian Wei** (*with* Tymchatyn, E. D.) Free spaces. (English summary) **2001g:54011**
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## 54F65 Topological characterizations of particular spaces

**Cai, Wei Yuan** (*with* Li, Jin Jin) Star-countable $k$-networks and sequence-covering $s$-mappings. (Chinese. English and Chinese summaries) **2001d:54030**
**Li, Jin Jin** *see* **Cai, Wei Yuan, 2001d:54030**
**Pelulyakh, E. A.** On imbedding of closed 2-dimensional disks into $\mathbf{R}^2$. (English summary) **2001m:54037**

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**Arenas, Francisco G.** (*with* Sánchez-Granero, M. A.) Every graph is a self-similar set. (English and Spanish summaries) **2001g:54034**
**Buhagiar, D.** (*with* Miwa, Takuo) On superparacompact and Lindelöf GO-spaces. (English summary) **2001a:54032**
**Charatonik, Janusz J.** (*with* Charatonik, Włodzimierz J.) Continua determined by mappings. (English summary) **2001f:54036**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Janusz J., 2001f:54036**
**Dontchev, Julian** (*with* Ganster, Maximilian; Noiri, Takashi) On $p$-closed spaces. (English summary) **2001c:54017**
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**Grace, E. E.** (*with* Vought, E. J.) Hereditarily weakly confluent maps and a characterization of class HW. (English summary) **2001m:54012**
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**Macías Alvarez, Sergio** (*with* Oversteegen, L. G.; Widener, M. P.) Confluent images of the hairy arc. (English summary) **2001d:54029**
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**Sánchez-Granero, M. A.** *see* **Arenas, Francisco G., 2001g:54034**
**Tall, Franklin D.** If it looks and smells like the reals .... (English summary) **2001d:54003**
**Tsereteli, I.** (*with* Zambakhidze, L.) Axiomatic characterizations of dimension in special classes of spaces. **2001i:54040**
**Valdez-Sanchez, Luis** *see* **Khamsi, Mohamed A. et al., 2001m:54028**
**Vought, E. J.** *see* **Grace, E. E., 2001m:54012**
**Widener, M. P.** *see* **Macías Alvarez, Sergio et al., 2001d:54029**
**Zambakhidze, L.** *see* **Tsereteli, I., 2001i:54040**

## 54F99 None of the above, but in this section

Items with secondary classifications in 54F99

**Heckmanns, Ulrich** (*with* Watson, W. Stephen) On $\sigma$-discrete, $T$-finite and tree-type topologies. (English summary) **2001b:54027**
**Kalenda, Ondřej F. K.** A characterization of Valdivia compact spaces. (English summary) **2001d:54015**
**Swenson, Eric L.** A cutpoint tree for a continuum. (English summary) **2001i:20085**
**Watson, W. Stephen** *see* **Heckmanns, Ulrich, 2001b:54027**

# 54Gxx Peculiar spaces

## 54G05 Extremally disconnected spaces, $F$-spaces, etc.

**Arkhangel'skiĭ, A. V.** On $P$-spaces, extremal disconnectedness, and some results of J. R. Isbell and V. I. Malychin. **2001a:54049**
**Dontchev, Julian** (*with* Ganster, Maximilian; Kanibir, Alev) More on $\theta$-irreducible spaces. (English summary)
**Ganster, Maximilian** *see* **Dontchev, Julian et al.**
**Gautam, Vishvajit V. S.** Some equivalent of extremally disconnected spaces. (English summary)
**Kanibir, Alev** *see* **Dontchev, Julian et al.**
**Kurilić, Miloš S.** Paraopen spaces—a class of peculiar spaces. (English summary) **2001i:54041**

Items with secondary classifications in 54G05

**Agrawal, Gunjan** On $n$-point $H$-closed extensions. (English summary) **2001j:54026**
**Arkhangel'skiĭ, A. V.** Strong disconnectedness properties and remainders in compactifications. (English summary) **2001e:54043**
**Balasubramanian, G.** *see* **Thangaraj, G.**
**Comfort, W. W.** Fourteen questions from the period 1965–1995. (English summary) **2001c:01021**
**Dow, Alan** (*with* Hart, Klaas Pieter) The measure algebra does not always embed. (English summary) **2001g:03089**
**Hart, Klaas Pieter** *see* **Dow, Alan, 2001g:03089**
**Kardos, Judit** Hausdorff dimension of symmetric perfect sets. (English summary) **2001e:28013**
**Li, Wen Xia** (*with* Xiao, Dong Mei) Intersection of translations of Cantor triadic set. (English summary) **2001f:28011**
**Park, Sehie** (*with* Sims, Brailey) Remarks on fixed point theorems in hyperconvex spaces. (English summary) **2001m:47110**
**Sims, Brailey** *see* **Park, Sehie, 2001m:47110**
**Singh, Ajit Iqbal** (*with* Swardson, Mary Anne) Levels of quotient rings of rings of continuous functions. (English summary) **2001e:54032**
**Swardson, Mary Anne** *see* **Singh, Ajit Iqbal, 2001e:54032**
**Thangaraj, G.** (*with* Balasubramanian, G.) On fuzzy basically disconnected spaces. (English summary)
**Xiao, Dong Mei** *see* **Li, Wen Xia, 2001f:28011**
**Zelenyuk, E. G.** Extremal ultrafilters and topologies on groups. (Russian. English and Russian summaries) **2001k:54065**

## 54G10 $P$-spaces

Items with secondary classifications in 54G10

**Arkhangel'skiĭ, A. V.** On $P$-spaces, extremal disconnectedness, and some results of J. R. Isbell and V. I. Malychin. **2001a:54049**
**Kurilić, Miloš S.** Paraopen spaces—a class of peculiar spaces. (English summary) **2001i:54041**

## 54G12 Scattered spaces

Items with secondary classifications in 54G12

**Darnel, Michael R.** (*with* Martinez, Jorge[2]) Hyper-special valued lattice-ordered groups. (English summary) **2001g:06011**
**Gruenhage, Gary** (*with* Moore, Justin T.) Countable Toronto spaces. (English summary) **2001c:54021**
**Gutev, Valentin** (*with* Ohta, Haruto) Does $C^*$-embedding imply $C$-embedding in the realm of products with a non-discrete metric factor? (English summary) **2001j:54015**
**Hamlett, T. R.** *see* **Janković, Dragan et al., 2001k:54004**
**Janković, Dragan** (*with* Hamlett, T. R.; Konstadilaki-Savvopoulou, Ch.) Local-to-global topological properties. (English summary) **2001k:54004**
**Konstadilaki-Savvopoulou, Ch.** *see* **Janković, Dragan et al., 2001k:54004**
**Martinez, Jorge[2]** *see* **Darnel, Michael R., 2001g:06011**
**Moore, Justin T.** *see* **Gruenhage, Gary, 2001c:54021**
**Ohta, Haruto** *see* **Gutev, Valentin, 2001j:54015**
**Plewe, Till** Higher order dissolutions and Boolean coreflections of locales. (English summary) **2001f:18010**

## 54G15 Pathological spaces

**Feng, Li** Strongly exactly $n$-resolvable spaces of arbitrarily large dispersion character. (English summary) **2001e:54059**

Items with secondary classifications in 54G15

**Arkhangel'skiĭ, A. V.** On topological and algebraic structure of extremally disconnected semitopological groups. (English summary) **2001k:54063**
— Strong disconnectedness properties and remainders in compactifications. (English summary) **2001e:54043**
**Dolecki, Szymon** (*with* Nogura, Tsugunori) Two-fold theorem on Fréchetness of products. (English summary) **2001h:54004**
**Khamsi, Mohamed A.** (*with* Nguyen, N. T.; Valdez-Sanchez, Luis) The AR-property in linear metric spaces. (English summary) **2001m:54028**
**Nguyen, N. T.** *see* **Khamsi, Mohamed A. et al., 2001m:54028**
**Nogura, Tsugunori** *see* **Dolecki, Szymon, 2001h:54004**
**Valdez-Sanchez, Luis** *see* **Khamsi, Mohamed A. et al., 2001m:54028**

## 54G20 Counterexamples

**Charatonik, Marta N.** (*with* Charatonik, Włodzimierz J.) On Mazurkiewicz sets. (English summary) **2001h:54065**
**Charatonik, Włodzimierz J.** *see* **Charatonik, Marta N., 2001h:54065**
**Costantini, Camillo** (*with* Simon, Petr) An $\alpha_4$, not Fréchet product of $\alpha_4$ Fréchet spaces. (English summary) **2001f:54039**
**van Hartskamp, Michael** (*with* van Mill, Jan) Some examples related to colorings. (English summary) **2001j:54043**
**van Mill, Jan** *see* **van Hartskamp, Michael, 2001j:54043**
**Simon, Petr** *see* **Costantini, Camillo, 2001f:54039**

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**Bogatyĭ, Semen A.** (*with* Fedorchuk, V. V.; van Mill, Jan) On mappings of compact spaces into Cartesian spaces. (English summary) **2001h:54027**
**Bonanzinga, M.** (*with* Cammaroto, Filippo[1]; Matveev, Mikhail Valer'evich) Partial discretization of topologies. (Italian summary) **2001j:54002**
— (*with* Matveev, Mikhail Valer'evich) Centered-Lindelöfness versus star-Lindelöfness. (English summary) **2001a:54031**
**Cameron, Douglas E.** The Alexandroff-Sorgenfrey line. **2001h:54001**
**Cammaroto, Filippo[1]** *see* **Bonanzinga, M. et al., 2001j:54002**
**Dobrowolski, Tadeusz** (*with* Kulesza, John) The topology of a subset of $l_p$ as $p$ is varied. (English summary) **2001e:54056**
**Fedorchuk, V. V.** *see* **Bogatyĭ, Semen A. et al., 2001h:54027**
**Fora, Ali Ahmad** New and old types of homogeneity. (English summary)
**Jiménez López, Víctor** (*with* Smital, J.) Two counterexamples to a conjecture by Agronsky and Ceder. (English summary) **2001h:54068**
**Kulesza, John** *see* **Dobrowolski, Tadeusz, 2001e:54056**
**Li, Yu Sheng** A result related to a counterexample for topological compactness. (Chinese. English and Chinese summaries)
**Matveev, Mikhail Valer'evich** *see* **Bonanzinga, M. et al., 2001a:54031** *and* **2001j:54002**
**van Mill, Jan** *see* **Bogatyĭ, Semen A. et al., 2001h:54027**
**Opěla, David** (*with* Pyrih, Pavel; Šámal, Robert) An example of openly minimal dendrite. (English summary) **2001j:54042**
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**Pyrih, Pavel** An example of self-homeomorphic dendrite not strongly self-homeomorphic. (English summary) **2001i:54037**
— *see also* **Opěla, David et al., 2001j:54042**
**Rodrigo, Javier** (*with* Tarrés i Freixenet, Juan) An example of two compact spaces with different topological dimensions. (English summary) **2001a:54047**
**Šámal, Robert** *see* **Opěla, David et al., 2001j:54042**
**Sanchis, Manuel** (*with* Tamariz Mascarúa, Ángel) $p$-pseudocompactness and related topics in topological spaces. (English summary) **2001b:54030**
**Scheepers, Marion** (*with* Szeptycki, Paul J.) Some games related to perfect spaces. (English summary) **2001m:54021**
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# 54Hxx Connections with other structures, applications

## 54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 26A21, 28A05]

**Bouhjar, Khalid** (*with* Dijkstra, Jan J.; Mauldin, R. Daniel) No $n$-point set is $\sigma$-compact. (English summary) **2001j:54044**
**Chaber, J.** (*with* Pol, Roman) On the Cantor-Bendixson derivative, resolvable ranks, and perfect set theorems of A. H. Stone. (English summary) **2001a:54050**
**Debs, Gabriel** (*with* Saint Raymond, Jean) Compact covering mappings between Borel spaces. **2001b:54045**
**Dijkstra, Jan J.** *see* **Bouhjar, Khalid et al., 2001j:54044**
**Holický, Petr** (*with* Zelený, Miroslav) A converse of the Arsenin-Kunugui theorem on Borel sets with $\sigma$-compact sections. (English summary) **2001j:54045**
**Kaufman, Robert** PCA sets and convexity. (English summary) **2001d:54031**
**Kominek, Václav** A remark on the uniformization in metric spaces. (English summary) **2001c:54029**
**Lecomte, Dominique** Complexité des boréliens à coupes dénombrables. (French summary) [Complexity of Borel sets with countable sections] **2001k:54061**
**Mauldin, R. Daniel** *see* **Bouhjar, Khalid et al., 2001j:54044**
**Pol, Roman** *see* **Chaber, J., 2001a:54050**
**Saint Raymond, Jean** *see* **Debs, Gabriel, 2001b:54045**
**Zelený, Miroslav** *see* **Holický, Petr, 2001j:54045**

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**Balcerzak, Marek** (*with* Peredko, Joanna) Errata: "Descriptive character of sets of density and $\mathcal{I}$-density points" [Real Anal. Exchange **23** (1997/1998), no. 1, 131–139; MR 99e:28002]. (English summary) **2001b:28001**
— (*with* Darji, Udayan B.) Some examples of true $F_{\sigma\delta}$ sets. (English summary) **2001k:03096**
**Banakh, T. O.** (*with* Cauty, Robert) On universality of countable and weak products of sigma hereditarily disconnected spaces. (English summary) **2001m:54004**
**Brendle, Jörg** (*with* Löwe, Benedikt) Solovay-type characterizations for forcing-algebras. (English summary) **2001h:03086**
**Caldas Cueva, Miguel** New characterization for a topological space to be semi-$T_{1/2}$.
**Carrese, Rosalba** On regular $J$-differentiability. (English summary) **2001g:26010**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
**Chigogidze, Alex** On spaces Baire isomorphic to the powers of the real line. (English summary) **2001i:54030**
**Darji, Udayan B.** Complexity of hereditarily decomposable continua. (English summary) **2001a:54044**
— *see also* **Balcerzak, Marek, 2001k:03096**
**Debs, Gabriel** (*with* Saint Raymond, Jean) Cofinal $\mathbf{\Sigma}^1_1$ and $\mathbf{\Pi}^1_1$ subsets of $\omega^\omega$. (English summary) **2001g:03087**
— (*with* Saint Raymond, Jean) Compact covering mappings and cofinal families of compact subsets of a Borel set. (English summary) **2001k:03098**
**Dontchev, Julian** (*with* Ganster, Maximilian; Noiri, Takashi) On $p$-closed spaces. (English summary) **2001c:54017**
— (*with* Ganster, Maximilian; Kanibir, Alev) More on $\theta$-irreducible spaces. (English summary)
**Dougherty, Randall** (*with* Kechris, Alexander S.) How many Turing degrees are there? (English summary) **2001d:03104**
**Farjami, Yaghoub** (*with* Hesaaraki, Mahmoud) On the integration on a sequence of l-sets. (English summary)
**Fernández Novoa, J.** Generalized Radon spaces which are not Radon. (English and Spanish summaries) **2001b:28017**
— Coverability of Radon measures. (English summary) **2001h:28016**
**Fidaleo, Francesco** Continuity of Borel actions of Polish groups on standard measure algebras. (English summary) **2001f:22017**
**Foreman, Matthew** A descriptive view of ergodic theory. **2001h:37003**
**Ganster, Maximilian** *see* **Dontchev, Julian et al., 2001c:54017**
**Hauser, Kai** A minimal counterexample to universal Baireness. (English summary) **2001i:03102**
**Hesaaraki, Mahmoud** *see* **Farjami, Yaghoub**
**Hjorth, Greg** Around nonclassifiability for countable torsion free abelian groups. (English summary) **2001c:20113**
**Holický, Petr** Remark on the point of continuity property and the strong Baire property in the restricted sense. (English summary)
**Kanibir, Alev** *see* **Dontchev, Julian et al.**
**Kechris, Alexander S.** Descriptive dynamics. (English summary) **2001j:37038**
— *see also* **Dougherty, Randall, 2001d:03104**
**Kenderov, Petar S.** (*with* Mirmostafaee, A. K.) Nonfragmentability of Banach spaces. **2001f:46024**
— (*with* Moors, Warren B.) Fragmentability and sigma-fragmentability of Banach spaces. (English summary) **2001f:46025**
**Löwe, Benedikt** *see* **Brendle, Jörg, 2001h:03086**
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**Malykhin, V. I.** Irresolvable countable spaces of weight less than $\mathfrak{c}$. (English summary) **2001b:54008**
**Mathias, A. R. D.** Strong statements of analysis. (English summary) **2001h:03102a**
— Delays, recurrence and ordinals. **2001j:03087**
— *see also* **Mac Lane, Saunders, 2001h:03102b**
**Mirmostafaee, A. K.** *see* **Kenderov, Petar S., 2001f:46024**
**Moors, Warren B.** *see* **Kenderov, Petar S., 2001f:46025**
**Noiri, Takashi** *see* **Dontchev, Julian et al., 2001c:54017**
**Omiljanowski, Krzysztof** (*with* Solecki, Sławomir; Zielinski, J. M.) Complexity of the class of Peano functions. (English summary) **2001a:03102**
**Oncina, L.** The JNR property and the Borel structure of a Banach space. (English summary) **2001e:46024**
**Ostrovskiĭ, A. V.** $s$-covering maps with complete fibers. (English summary) **2001b:54021**
**Peredko, Joanna** *see* **Balcerzak, Marek, 2001b:28001**
**Pfeffer, Washek F.** On topological smallness. (English summary) **2001k:03099**
**Saint Raymond, Jean** *see* **Debs, Gabriel, 2001g:03087** *and* **2001k:03098**
**Scarr, Tzvi** Topological and Borel compactifications of Polish $G$-spaces. (English summary) **2001d:54032**
**Scheepers, Marion** Finite powers of strong measure zero sets. (English summary) **2001m:03096**
**Shelah, Saharon** A space with only Borel subsets. **2001j:03091**
**Solecki, Sławomir** Filters and sequences. (English summary) **2001g:54006**
— *see also* **Omiljanowski, Krzysztof et al., 2001a:03102**
**Spinas, Otmar** Ramsey and freeness properties of Polish planes. **2001j:03088**
**Zakrzewski, Piotr** Universally meager sets. (English summary) **2001m:03097**
**Zielinski, J. M.** *see* **Omiljanowski, Krzysztof et al., 2001a:03102**

## 54H10 Topological representations of algebraic systems [see also 22–XX]

**Kemp, Paula** Retrieving a topological space from its lattice of open sets. (English summary)
**McCluskey, A. E.** (*with* McMaster, T. Brian M.) Realizing quasiordered sets by subspaces of "continuum-like" spaces. (English summary) **2001i:54042**
**McMaster, T. Brian M.** *see* **McCluskey, A. E., 2001i:54042**

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**Hilken, Barnaby P.** Topological duality for intuitionistic modal algebras. (English summary) **2001f:03042**
**Jun, Young Bae** (*with* Xin, Xiao Long) On topological BCI-algebras. II. (English summary)
**Kamara, M.** *see* **Hartung, Gerd et al., 2001c:06004**
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**Xin, Xiao Long** *see* **Jun, Young Bae**

## 54H11 Topological groups [see also 22A05]

**Alas, O. T.** (*with* Tkachenko, Mikhail G.; Tkachuk, V. V.; Wilson, Richard Gordon) Connectedness and local connectedness of topological groups and extensions. (English summary) **2001c:54030**

**Arkhangel'skiĭ, A. V.** Moscow spaces, Pestov-Tkačenko problem, and $C$-embeddings. (English summary) **2001k:54062**

— On topological and algebraic structure of extremally disconnected semitopological groups. (English summary) **2001k:54063**

**Borubaev, A. A.** (*with* Chekeev, Asylbek A.) On completions of topological groups with respect to the maximal uniform structure and factorization of uniform homomorphisms with respect to uniform weight and dimension. (English summary) **2001e:54060**

**Chekeev, Asylbek A.** *see* **Borubaev, A. A., 2001e:54060**

**Chigogidze, Alex** Compact groups and absolute extensors. (English summary) **2001f:54040**

**Clark, Bradd** *see* **Reeves, Kevin et al., 2001c:54031**

**Comfort, W. W.** (*with* García-Ferreira, Salvador) Strongly extraresolvable groups and spaces. (English summary) **2001k:54064**

**García-Ferreira, Salvador** *see* **Comfort, W. W., 2001k:54064**

**Grigoryan, Suren Arshakovich** (*with* Gumerov, R. N.; Kazantsev, A. V.) Group structure in finite coverings of compact solenoidal groups. (English summary) **2001j:54046**

**Gumerov, R. N.** *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**

**Kazantsev, A. V.** *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**

**Künzi, Hans-Peter A.** Quasi-uniform isomorphism groups. (*see* **2001f:54021**)

**Liu, Chuan** (*with* Sakai, Masami; Tanaka, Yoshio[1]) Topological groups, $k$-networks, and weak topology. (*see* **2001a:54001**)

**Lowen, Robert** (*with* Windels, Bart) Approach groups. (English summary) **2001i:54043**

**Malykhin, V. I.** New results on totally bounded groups. (Russian) **2001b:54046**

**Reeves, Kevin** (*with* Clark, Bradd; Schneider, Victor P.) Subsets and subspaces that determine group topologies. (English summary) **2001c:54031**

**Sakai, Masami** *see* **Liu, Chuan et al., (2001a:54001)**

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**Shakhmatov, Dmitriĭ B.** Recent progress in topological groups: selected topics. (*see* **2001m:54001**)

**Shell, Niel** Simple and compact direct topologies. (English summary) **2001i:54044**

**Sipacheva, Ol'ga V.** Free topological groups of spaces and their subspaces. (English summary) **2001f:54041**

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**Tomita, Artur Hideyuki** On the number of countably compact group topologies on a free abelian group. (English summary) **2001b:54047**

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**Windels, Bart** *see* **Lowen, Robert, 2001i:54043**

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**Zarichnyĭ, M. M.** Strongly countable-dimensional resolvents of sigma-compact groups. (Russian. English and Russian summaries) **2001h:54066**

**Zelenyuk, E. G.** Extremal ultrafilters and topologies on groups. (Russian. English and Russian summaries) **2001k:54065**

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**Aussenhofer, L.** Contributions to the duality theory of abelian topological groups and to the theory of nuclear groups. (English summary) **2001c:43003**

**Banakh, T. O.** On hyperspaces and homeomorphism groups homeomorphic to products of absorbing sets and $\mathbf{R}^\infty$. (English summary) **2001k:57027**

— Locally minimal topological groups and their embeddings into products of $o$-bounded groups. (English summary) **2001j:22002**

— (*with* Zarichnyĭ, M. M.) The interval [0, 1] admits no functorial embedding into a finite-dimensional or metrizable topological group. (English summary) **2001b:54012**

**Banaszczyk, W.** (*with* Martín-Peinador, E.) Weakly pseudocompact subsets of nuclear groups. (English summary) **2001i:22002**

**Bella, Angelo** *see* **Arkhangel'skiĭ, A. V., 2001i:54022**

**Ber, A. F.** On a connected compact inverse semigroup. (Russian. English and Uzbek summaries)

**Boschi, Elena** (*with* Dikranjan, Dikran) Essential subgroups of topological groups. (English summary) **2001k:22001**

**Christensen, Jens Peter Reus** (*with* Kanoveĭ, V. G.; Reeken, Michael) On Borel orderable groups. (English summary) **2001m:03092**

**Cignoli, Roberto L. O.** (*with* Gluschankof, D.; Lucas, François) Prime spectra of lattice-ordered abelian groups. (English summary) **2001a:06023**

**Comfort, W. W.** (*with* García-Ferreira, Salvador) Dense subsets of maximally almost periodic groups. (English summary) **2001e:22001**

**Das, N. R.** (*with* Das, Prabin) Neighborhood systems in fuzzy topological group. (English summary) **2001h:54007**

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**Dikranjan, Dikran** (*with* Tkachenko, Mikhail G.) Characterization of the tori via density of the solution set of linear equations. (English summary) **2001m:22009**

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— *see also* **Boschi, Elena, 2001k:22001**

**Galindo, Jorge** (*with* Hernández, Salvador) The concept of boundedness and the Bohr compactification of a MAP abelian group. (English summary) **2001c:22001**

**García-Ferreira, Salvador** *see* **Comfort, W. W., 2001e:22001**

**Gartside, P. M.** (*with* Reznichenko, E. A.) Katětov revisited. (English summary) **2001h:54050**

**Gluschankof, D.** *see* **Cignoli, Roberto L. O. et al., 2001a:06023**

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**Higson, Nigel** (*with* Roe, John) Amenable group actions and the Novikov conjecture. (English summary) **2001h:57043**

**Hindman, Neil** (*with* Maleki, Amir; Strauss, Dona Papert) Linear equations in the Stone-Čech compactification of N. (English summary) **2001i:54020**

**Hofmann, Karl Heinrich** (*with* Martin, John R.) $G$-spaces and fixed point sets. (English summary) **2001k:22008**

**Itzkowitz, Gerald** On balanced topological groups. (English summary) **2001c:22002**

**Kanoveĭ, V. G.** *see* **Christensen, Jens Peter Reus et al., 2001m:03092**

**Kenderov, Petar S.** (*with* Kortezov, Ivaylo S.; Moors, Warren B.) Topological games and topological groups. (English summary) **2001h:22003**

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**Kurilić, Miloš S.** Paraopen spaces—a class of peculiar spaces. (English summary) **2001i:54041**

**Loth, Peter** When is a discrete bounded subgroup of an LCA group necessarily a topological direct summand? (English summary) **2001k:22006**

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## 54H12 Topological lattices, etc. [see also 06B30, 06F30]

**Li, San Jiang** (*with* Luo, Mao Kang) Uryson's lemma and arcwise connected completely distributive lattices. (Chinese. Chinese summary)

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— (*with* Li, Zhi Hui) Limit molecular lattices. (Chinese. English and Chinese summaries) **2001m:54042**
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## 54H15 Transformation groups and semigroups [see also 20M20, 22–XX, 57Sxx]

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## 54H20 Topological dynamics [see also 28Dxx, 37Bxx]

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**Bernardes, Nilson C., Jr.** On the set of points with a dense orbit. (English summary) **2001b:54048**
**Boldrin, Michele** (*with* Nishimura, Kazuo; Shigoka, Tadashi; Yano, Makoto) On the chaotic dynamics generated by an endogenous growth model. (*see* **2001m:37002**)
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**Choi, Sung Kyu** (*with* Chu, Chin-Ku; Park, Jong Suh) Minimal center of attraction for a continuous map. (English summary) **2001m:54040**
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**Bobok, Jozef** A remark on topological entropy of unimodal Markov maps. **2001h:37073**
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**Fora, Ali Ahmad** New and old types of homogeneity. (English summary)
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**Salbany, Sergio** (*with* Todorov, Todor Dimitrov[1]) Nonstandard analysis in topology: nonstandard and standard compactifications. (English summary) **2001m:54046**
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**Hu, Yong Li** (*with* Wang, Shang Zhi; Pen, Liang Xue) Two problems in relative topology. (Chinese. English and Chinese summaries)
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**Goersss, Paul G.** (*with* Jardine, John F.) ★ Simplicial homotopy theory. (English summary) **2001d:55012**
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**Arkowitz, Martin** Problems on self-homotopy equivalences. (*see* **2001i:55001**)
**Rutter, John W.** Homotopy self-equivalences 1988–1999. (English summary) **2001m:55001**
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**Álvarez Solano, Víctor** *see* **Hurado, P. R. et al., 2001c:55001**
**Armario, J. A.** *see* **Hurado, P. R. et al., 2001c:55001**
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**(Arlettaz, Dominique)** *see* **Une dégustation topologique [Topological morsels]: homotopy theory in the Swiss Alps, 2001h:55001**
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**(Falk, Michael J.)** *see* **Arrangements—Tokyo 1998, 2001f:55001**
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# 55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx.}

## 55M05 Duality

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## 55M20 Fixed points and coincidences [see also 54H25]

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## 55M25 Degree, winding number

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## 55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space

**Arkowitz, Martin** Equivalent definitions of the Ganea fibrations and cofibrations. (English summary) **2001a:55003**
— On Whitehead's inequality, $\mathrm{nil}[X, G] \leq \mathrm{cat}\, X$. (English summary) **2001k:55009**
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**Fernández-Suárez, Lucía** A cancellation theorem for 2-cones. (English summary) **2001i:55004**
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**Lambrechts, Pascal** Cochain model for thickenings and its application to rational LS-category. (English summary) **2001m:55009**
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**Stanley, Donald** The sectional category of spherical fibrations. (English summary) **2001a:55004**
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**Ajayi, Deborah O.** *see* **Ilori, Samuel A., 2001h:57030**
**Andrica, Dorin** Functions with minimal critical set: new results and open problems. (English summary) **2001g:57064**
**Bryden, John M.** (*with* Hayat-Legrand, C.; Zieschang, H.; Zvengrowski, Peter) The cohomology ring of a class of Seifert manifolds. (English summary) **2001d:57022**
**Gatsinzi, J.-B.** A fibration with a section and of infinite genus. (English summary) **2001i:55016**
**Ghorbal, Sonia** (*with* Jessup, Barry) Estimating the rational LS-category of elliptic spaces. (English summary) **2001k:55032**
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**González-Acuña, F.** *see* **Gómez-Larrañaga, J. C. et al., 2001g:57036**
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**Ilori, Samuel A.** (*with* Ajayi, Deborah O.) The height of the first Stiefel-Whitney class of the real flag manifolds. **2001h:57030**
**Izydorek, Marek** (*with* Marzantowicz, Wacław) The Borsuk-Ulam property for cyclic groups. (English summary) **2001k:55006**
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**Korbaš, Július** On cohomology of fiber bundles with Grassmannian fibers. (English summary) (*see* **2001i:00034**)
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**Ôshima, Hideaki** (*with* Yagita, Nobuaki) Non commutativity of self homotopy groups. (English summary) **2001i:55014**
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**Tralle, A. E.** *see* **Rudyak, Yu. B., 2001i:53151**
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## 55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

**Puppe, V.** Group actions and codes. (English summary) **2001m:55010**

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**Balanov, Z.** (*with* Krawcewicz, Wieslaw; Kushkuley, A.) Brouwer degree, equivariant maps and tensor powers. (English summary) **2001d:57040**
**Jorge, H. A.** Smith-type inequalities for a polytope with a solvable group of symmetries. (English summary) **2001f:52018**
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## 55M99 None of the above, but in this section

**El-Kholy, E. M.** (*with* Shahin, R. M.) Cellular folding. (English summary) **2001e:55005**
**Shahin, R. M.** *see* **El-Kholy, E. M., 2001e:55005**

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**Bertrand, Gilles** (*with* Malgouyres, Rémy) Some topological properties of surfaces in $\mathbf{Z}^3$. (English summary) **2001c:57020**
**Cristea, Mihai** A topological generalization of the theorems of Gale-Nikaido and Mas Colell. (English summary) **2001g:30016**
**Ehrenborg, Richard** (*with* Johnston, D.; Rajagopalan, Rajmohan; Readdy, Margaret A.) Cutting polytopes and flag $f$-vectors. (English summary) **2001a:52009**
**Johnston, D.** *see* **Ehrenborg, Richard et al., 2001a:52009**
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**Rajagopalan, Rajmohan** *see* **Ehrenborg, Richard et al., 2001a:52009**
**Readdy, Margaret A.** *see* **Ehrenborg, Richard et al., 2001a:52009**

# 55Nxx Homology and cohomology theories [see also 57Txx]

## 55N05 Čech types

**Baladze, D.** (*with* Romanadze, G.) Contracted $K$-groups of the homology and cohomology over the pairs of copresheaves and presheaves respectively. (English summary)
**Romanadze, G.** *see* **Baladze, D.**

Items with secondary classifications in 55N05

**Choi, Jongsool** Properties of $n$-bubbles in $n$-dimensional compacta and the existence of $(n-1)$-bubbles in $n$-dimensional clc$^n$ compacta. (English summary) **2001b:55002**
**Preuß, Gerhard** Some algebraically topological aspects in the realm of convenient topology. (English summary) **2001j:54001**
**Vitolo, Raffaele** Quantum structures in Einstein general relativity. (English summary) **2001i:53163**

## 55N07 Steenrod-Sitnikov homologies

**Mardešić, Sibe** ★ Strong shape and homology (English summary) **2001e:55006**

## 55N15 $K$-theory [see also 19Lxx] {For algebraic $K$-theory, see 18F25, 19–XX.}

**Barufatti, Nelza E.** (*with* Hacon, Derek) $K$-theory of projective Stiefel manifolds. (English summary) **2001b:55008**
**Hacon, Derek** *see* **Barufatti, Nelza E., 2001b:55008**
**Hodgkin, Luke** Topological $K$-theory of the integers at the prime 2. (English summary) **2001k:55010**
**Joachim, Michael** A symmetric ring spectrum representing $KO$-theory. (English summary) **2001k:55011**
**Nishimura, Yasuzo** (*with* Yosimura, Zen-ichi) The quasi $KO_*$-types of stunted mod 8 lens spaces. **2001j:55004**
**Osse, Akimou** (*with* Suter, Ueli) Invariant theory and the $K$-theory of the Dwyer-Wilkerson space. (English summary) **2001j:55005**
**Sankaran, Parameswaran** (*with* Zvengrowski, Peter) $K$-theory of oriented Grassmann manifolds. (English summary) **2001h:55005**
**Strickland, N. P.** $K(N)$-local duality for finite groups and groupoids. (English summary) **2001h:55006**
**Suter, Ueli** *see* **Osse, Akimou, 2001j:55005**
**Yang, Yeong-mee** On Morava $K$-groups of stunted projective spaces. **2001d:55001**
**Yosimura, Zen-ichi** Quasi $KO_*$-types of CW-spectra $X$ with $KU_*X \cong \mathrm{Free} \oplus \mathbf{Z}/2^m$. **2001b:55009**
— The quasi $KO_*$-types of CW-spectra $X$ with $KU_0X \cong \mathbf{Z}/2^m$ and $KU_1X \cong \mathbf{Z}/2^n$. **2001m:55011**
— *see also* **Nishimura, Yasuzo, 2001j:55004**
**Zvengrowski, Peter** *see* **Sankaran, Parameswaran, 2001h:55005**

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**Arouche, Abdelouahab** Supports of primes in equivariant $K$-theory rings. (English and Arabic summaries)
**Baladze, D.** (*with* Romanadze, G.) Contracted $K$-groups of the homology and cohomology over the pairs of copresheaves and presheaves respectively. (English summary)
**Bendersky, Martin** (*with* Thompson, Robert D.) The Bousfield-Kan spectral sequence for periodic homology theories. (English summary) **2001i:55021**
**Bousfield, A. K.** On $K(n)$-equivalences of spaces. (English summary) **2001k:55013**
**Cho, Jin-Hwan** (*with* Masuda, Mikiya) Equivariant $K$-groups of spheres with involutions. (English summary) **2001e:19008**
**Dehon, François-Xavier** (*with* Lannes, Jean) Sur les espaces fonctionnels dont la source est le classifiant d'un groupe de Lie compact commutatif. (English and French summaries) [Functional spaces whose source is the classifying space of a commutative compact Lie group] **2001m:55038**
**Kobayashi, Teiichi** (*with* Komatsu, Kazushi) Extendibility and stable extendibility of vector bundles over real projective spaces. (English summary) **2001j:55018**
**Komatsu, Kazushi** *see* **Kobayashi, Teiichi, 2001j:55018**
**Lannes, Jean** *see* **Dehon, François-Xavier, 2001m:55038**
**Madsen, Ib Henning** (*with* Schlichtkrull, Christian) The circle transfer and $K$-theory. (English summary) **2001e:55021**
**Masuda, Mikiya** *see* **Cho, Jin-Hwan, 2001e:19008**
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## 55N20 Generalized (extraordinary) homology and cohomology theories

**Baker, Andrew J.** $I_n$-local Johnson-Wilson spectra and their Hopf algebroids. (English summary) **2001k:55012**

**Bousfield, A. K.** On $K(n)$-equivalences of spaces. (English summary) **2001k:55013**

**Brunetti, Maurizio** A remark on the distribution of generators in $\widetilde{K(n)}^*(BG)$. (English summary) **2001d:55002**

**Jakob, Martin** An alternative approach to homology. (English summary) **2001k:55014**

**Lee, Dae-Woong** *see* **Lee, Hong-Jae, 2001e:55007**

**Lee, Hong-Jae** (*with* Lee, Dae-Woong) Derived limits of inverse systems over (pre)ordered sets. (English summary) **2001e:55007**

**Strickland, N. P.** The BP($n$) cohomology of elementary abelian groups. **2001j:55006**

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**Baker, Andrew J.** On the cohomology of some Hopf algebroids and Hattori-Stong theorems. (English summary) **2001h:55007**

**Bousfield, A. K.** On the telescopic homotopy theory of spaces. (English summary) **2001k:55030**

**Bukhshtaber, V. M.** (*with* Fel′dman, K. È.) The index of an equivariant vector field, and addition theorems for Pontryagin characteristic classes. (Russian. Russian summary) **2001i:57041**

**Casacuberta, Carles** (*with* Scherer, Jérôme) Homological localizations preserve 1-connectivity. (English summary) **2001j:55008**

**Fel′dman, K. È.** *see* **Bukhshtaber, V. M., 2001i:57041**

**González, Jesús²** A vanishing line in the BP⟨1⟩-Adams spectral sequence. (English summary) **2001j:55022**

**Gray, Brayton** Associativity in two-cell complexes. **2001f:55018**

**Hopkins, Michael J.** (*with* Kuhn, Nicholas J.; Ravenel, Douglas C.) Generalized group characters and complex oriented cohomology theories. **2001k:55015**

**Kuhn, Nicholas J.** *see* **Hopkins, Michael J. et al., 2001k:55015**

**Lesh, Kathryn** A filtration of spectra arising from families of subgroups of symmetric groups. (English summary) **2001a:55010**

**Lima-Filho, Paulo** Algebraic families of $E_\infty$-spectra. (English summary) **2001g:55005**

**Neeman, Amnon** ★ Triangulated categories. **2001k:18010**

**Ravenel, Douglas C.** *see* **Hopkins, Michael J. et al., 2001k:55015**

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**Tai, Jin-Yen** On generalized plus-constructions of Eilenberg-Mac Lane spaces. (English summary) **2001m:55027**

**Yang, Yeong-mee** On Morava $K$-groups of stunted projective spaces. **2001d:55001**

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## 55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

**Ando, Matthew** (*with* Strickland, N. P.) Weil pairings and Morava $K$-theory. (English summary) **2001i:55005**

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**Cole, Michael²** (*with* Greenlees, J. P. C.; Kriz, Igor) Equivariant formal group laws. **2001i:55006**

**González, Jesús²** Filtering the coefficients of the $[2^k]$-series for Brown-Peterson homology. (English summary) **2001g:55002**

— 2-divisibility in the Brown-Peterson $[2^k]$-series. (English summary) **2001m:55012**

**Greenlees, J. P. C.** (*with* Strickland, N. P.) Varieties and local cohomology for chromatic group cohomology rings. (English summary) **2001c:55003**

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**Johnson, Keith Peter** On the structure of the Hopf algebroid $E(n)_*E(n)$. (English summary) **2001e:55008**

**Kriz, Igor** The $\mathbf{Z}/p$-equivariant complex cobordism ring. **2001b:55010**

— (*with* Lee, Kevin P.) Odd-degree elements in the Morava $K(n)$ cohomology of finite groups. (English summary) **2001f:55008**

— *see also* **Cole, Michael² et al., 2001i:55006**

**Kuhn, Nicholas J.** *see* **Hopkins, Michael J. et al., 2001k:55015**

**Laures, Gerd** On cobordism of manifolds with corners. (English summary) **2001i:55007**

**Lee, Kevin P.** *see* **Kriz, Igor, 2001f:55008**

**Özel, C.** *see* **Baker, Andrew J., 2001f:55007**

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**Strickland, N. P.** *see* **Greenlees, J. P. C., 2001c:55003** *and* **Ando, Matthew, 2001i:55005**

**Torii, Takeshi** Topological realization of level structures of the formal group law over $\widehat{E(n)}$. **2001b:55011**

— Level structure over $\widehat{E(n)}$ and stable splitting by Steinberg idempotent. **2001b:55012**

**Vershinin, Vladimir V.** Thom spectra of generalized braid groups. (English summary) **2001e:55009**

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**Abánades, M.** (*with* Kucharz, W.) Algebraic equivalence of real algebraic cycles. **2001a:14061**

**Baker, Andrew J.** $I_n$-local Johnson-Wilson spectra and their Hopf algebroids. (English summary) **2001k:55012**

**Bakuradze, M.** On symplectic cobordism of real projective plane. (English summary) **2001e:57036**

**Brunetti, Maurizio** A remark on the distribution of generators in $\widetilde{K(n)}^*(BG)$. (English summary) **2001d:55002**

**Debon, François-Xavier** (*with* Lannes, Jean) Sur les espaces fonctionnels dont la source est le classifiant d'un groupe de Lie compact commutatif. (English and French summaries) [Functional spaces whose source is the classifying space of a commutative compact Lie group] **2001m:55038**

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**Jakob, Martin** An alternative approach to homology. (English summary) **2001k:55014**

**Kamiyama, Yasuhiko** Chern numbers of the moduli space of spatial polygons. (English summary) **2001h:57031**

**Kheldouni, Abdelaziz** Sur la dualité de Poincaré. [On the Poincaré duality] **2001i:55008**

**Kucharz, W.** *see* **Abánades, M., 2001a:14061**

**Lannes, Jean** *see* **Debon, François-Xavier, 2001m:55038**

**Liu, Xibo** *see* **Lü, Zhi, 2001d:57038**

**Lü, Zhi** (*with* Liu, Xibo) Involutions fixing the disjoint union of 3-real projective space with Dold manifold. (English summary) **2001d:57038**

**Mahowald, Mark** (*with* Rezk, Charles) Brown-Comenetz duality and the Adams spectral sequence. (English summary) **2001a:55008**

**Rezk, Charles** *see* **Mahowald, Mark, 2001a:55008**

**Strickland, N. P.** The BP($n$) cohomology of elementary abelian groups. **2001j:55006**

— Gross-Hopkins duality. (English summary) **2001d:55006**

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## 55N25 Homology with local coefficients, equivariant cohomology

**Kheldouni, Abdelaziz** Sur la dualité de Poincaré. [On the Poincaré duality] **2001i:55008**

Items with secondary classifications in 55N25

**Cho, Jin-Hwan** (*with* Masuda, Mikiya) Equivariant $K$-groups of spheres with involutions. (English summary) **2001e:19008**

**Masuda, Mikiya** *see* **Cho, Jin-Hwan, 2001e:19008**

## 55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

**Heitsch, James L.** Coarse sheaf cohomology for foliations. (English summary) **2001k:55016**

**Kamiyama, Yasuhiko** Sheaf cohomology of the moduli space of spatial polygons and lattice points. (English summary) **2001b:55013**

**Molaei, M. R.** Isosheaf cohomology isotheory. (English summary) **2001i:55009**

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**Baladze, D.** (*with* Romanadze, G.) Contracted $K$-groups of the homology and cohomology over the pairs of copresheaves and presheaves respectively. (English summary)

**Crainic, Marius** (*with* Moerdijk, Ieke) A homology theory for étale groupoids. (English summary) **2001f:58039**

**Jacobs, Philippe** A sheaf homology theory with supports. (English summary) **2001j:11113**

**Kamiyama, Yasuhiko** The cohomology of spatial polygon spaces with anticanonical sheaf. (English summary) **2001g:53150**

**Léandre, Rémi** A sheaf-theoretical approach to stochastic cohomology. (English summary) **2001m:58076**

**Moerdijk, Ieke** *see* **Crainic, Marius, 2001f:58039**

**Onishchik, A. L.** On non-abelian cochain complexes. **2001b:18012**

**Romanadze, G.** *see* **Baladze, D.**

## 55N33 Intersection homology and cohomology

Items with secondary classifications in 55N33

**Corti, Alessio** (*with* Hanamura, Masaki) Motivic decomposition and intersection Chow groups. I. **2001f:14039**

**Hanamura, Masaki** *see* **Corti, Alessio, 2001f:14039**

**Houston, Kevin** Perverse sheaves on image multiple point spaces. (English summary) **2001g:32073**

**Lerman, Eugene** (*with* Tolman, S.) Intersection cohomology of $S^1$ symplectic quotients and small resolutions. **2001k:53163**

**Tolman, S.** *see* **Lerman, Eugene, 2001k:53163**

## 55N34 Elliptic cohomology

**Tanabe, Michimasa** A remark on Baker operations on the elliptic cohomology of finite groups. **2001k:55017**

**Thomas, Charles B.** ★ Elliptic cohomology. (English summary) **2001b:55015**

— Elliptic cohomology. **2001b:55014**

Items with secondary classifications in 55N34

**Laures, Gerd** On cobordism of manifolds with corners. (English summary) **2001i:55007**

**Liu, Kefeng** (*with* Ma, Xiaonan; Zhang, Wei Ping[1]) Rigidity and vanishing theorems in $K$-theory. (English and French summaries) **2001j:58039**

— (*with* Ma, Xiaonan) On family rigidity theorems. I. **2001j:58038**

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**Tamanoi, Hirotaka** ★ Elliptic genera and vertex operator super-algebras. **2001e:58028**

**Totaro, Burt** Chern numbers for singular varieties and elliptic homology. **2001g:58037**

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## 55N35 Other homology theories

**Ando, Matthew** Power operations in elliptic cohomology and representations of loop groups. (English summary) **2001b:55016**

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**Alemzadeh, A. A.** Bordism group of map graphs. (English summary) **2001j:57005**
**Birbrair, Lev** (*with* Brasselet, Jean-Paul) Metric homology. (English summary) **2001h:14075**
**Brasselet, Jean-Paul** *see* **Birbrair, Lev, 2001h:14075**
**Cavicchioli, Alberto** (*with* Meschiari, M.; Spaggiari, Fulvia) A graph theoretic algorithm for computing the (co)homology of polyhedra. (Italian summary) **2001e:57028**
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**Kotov, Alexei** Poisson homology of $r$-matrix type orbits. I. Example of computation. (English summary) **2001b:53103**
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**Mardešić, Sibe** ★ Strong shape and homology. (English summary) **2001e:55006**
**Meschiari, M.** *see* **Cavicchioli, Alberto et al., 2001e:57028**
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**Saveliev, Nikolai** An involution permuting Floer homology. (English summary) **2001e:57033**
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**Zucchini, Roberto** Basic and equivariant cohomology in balanced topological field theory. (English summary) **2001k:81277**

## 55N45 Products and intersections

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**DeMichelis, Stefano** (*with* Germano, Fabrizio) On the indices of zeros of Nash fields. (English summary) **2001k:91013**
**Dranishnikov, Alexander** On the dimension of the product of two compacta and the dimension of their intersection in general position in Euclidean space. (English summary) **2001j:55002**
**Germano, Fabrizio** *see* **DeMichelis, Stefano, 2001k:91013**

## 55N91 Equivariant homology and cohomology [see also 19L47]

**Bott, Raoul H.** An introduction to equivariant cohomology. **2001f:55009**
**Villarroel-Flores, Rafael** Homotopy equivalence of simplicial sets with a group action. (English summary) **2001k:55018**

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**Alekseev, Anton Yu.** Notes on equivariant localization. (English summary) **2001k:53158**
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**Brion, Michel** Poincaré duality and equivariant (co)homology. **2001m:14032**
**Cappell, Sylvain** (*with* Lee, Ronnie; Miller, E. Y.) The Torelli group action on representation spaces. **2001i:57024**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Cho, Jin-Hwan** (*with* Masuda, Mikiya) Equivariant $K$-groups of spheres with involutions. (English summary) **2001e:19008**
**Cole, Michael[1]** (*with* Greenlees, J. P. C.; Kriz, Igor) Equivariant formal group laws. **2001i:55006**
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**Ginzburg, Viktor L.** Equivariant Poisson cohomology and a spectral sequence associated with a moment map. (English summary) **2001g:53143**
**Greenlees, J. P. C.** (*with* Strickland, N. P.) Varieties and local cohomology for chromatic group cohomology rings. (English summary) **2001c:55003**
— *see also* **Cole, Michael[2] et al., 2001i:55006**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
— (*with* Zara, C.) Equivariant de Rham theory and graphs. (English summary) **2001g:58033**
**Hopkins, Michael J.** (*with* Kuhn, Nicholas J.; Ravenel, Douglas C.) Generalized group characters and complex oriented cohomology theories. **2001k:55015**
**Jeffrey, Lisa C.** (*with* Kirwan, Frances C.) Applications of equivariant cohomology to symplectic geometry and moduli spaces. **2001b:53108**
— Hamiltonian group actions and symplectic reduction. **2001b:53109**
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**Klein, John R.** The dualizing spectrum of a topological group. (English summary) **2001m:55037**
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— (*with* Richter, Birgit) Robinson-Whitehouse complex and stable homotopy. (English summary) **2001e:13019**
**Richter, Birgit** *see* **Pirashvili, Teimuraz, 2001e:13019**
**Schwede, Stefan** $S$-modules and symmetric spectra. **2001m:55050**
**Strickland, N. P.** Gross-Hopkins duality. (English summary) **2001d:55006**
**Torii, Takeshi** Level structure over $\widehat{E(n)}$ and stable splitting by Steinberg idempotent. **2001b:55012**
**Vershinin, Vladimir V.** Thom spectra of generalized braid groups. (English summary) **2001e:55009**
**Webb, Peter** A guide to Mackey functors. **2001f:20031**
**Yosimura, Zen-ichi** Quasi $KO_*$-types of CW-spectra $X$ with $KU_*X \cong$ Free $\oplus\, \mathbf{Z}/2^m$. **2001b:55009**
— The quasi $KO_*$-types of CW-spectra $X$ with $KU_0X \cong \mathbf{Z}/2^m$ and $KU_1X \cong \mathbf{Z}/2^n$. **2001m:55011**
— *see also* **Nishimura, Yasuzo, 2001j:55004**
**Zaldívar, Felipe** On 2-primary localized algebraic $K$-theory. (English summary) **2001e:19002**

## 55P43 Spectra with additional structure ($E_\infty$, $A_\infty$, ring spectra, etc.)

**Basterra, M.** André-Quillen cohomology of commutative $S$-algebras. (English summary) **2001b:55025**
**Schwänzl, R.** (*with* Vogt, R. M.; Waldhausen, F.) Adjoining roots of unity to $E_\infty$ ring spectra in good cases—a remark. **2001b:55026**
**Vogt, R. M.** *see* **Schwänzl, R. et al., 2001b:55026**
**Waldhausen, F.** *see* **Schwänzl, R. et al., 2001b:55026**

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**Chataur, David** Un modèle algébrique de la suite spectrale de Leray. (English and French summaries) [An algebraic model of the Leray spectral sequence] **2001m:18011**
**Goerss, Paul G.** (*with* Hopkins, Michael J.) André-Quillen (co)-homology for simplicial algebras over simplicial operads. (English summary) **2001m:18012**
**Hopkins, Michael J.** *see* **Goerss, Paul G., 2001m:18012**
**Patras, Frédéric** Adams operations, algebras up to homotopy and cyclic homology. (English summary) **2001i:19004**

## 55P45 $H$-spaces and duals

**Brinkmeier, Michael** Strongly homotopy-commutative monoids revisited. (English summary) **2001k:55026**
**Klaus, Stephan** On simplicial loops and $H$-spaces. (English summary) **2001k:55027**
**Kudou, Kenji** (*with* Yagita, Nobuaki) Correction to: "Modulo odd prime homotopy normality for $H$-spaces" [J. Math. Kyoto Univ. **38** (1998), no. 4, 643–651; MR 99m:55012]. **2001k:55028**
**Lee, Kee Young** *see* **Woo, Moo Ha**
**Neisendorfer, Joseph** A survey of Anick-Gray-Theriault constructions and applications to the exponent theory of spheres and Moore spaces. (English summary) **2001j:55007**
**Notbohm, D.** The finiteness obstruction for loop spaces. (English summary) **2001e:55012**
**Ōshima, Hideaki** Self-homotopy set of a Hopf space. **2001a:55009**
— Self homotopy group of the exceptional Lie group $G_2$. **2001f:55013**
**Son, Hong-Chan** On the $G(F)$-sequence of a CW-triple. (English summary) **2001f:55014**
**Woo, Moo Ha** (*with* Lee, Kee Young) Evaluation subgroups and generalizations of $G$-sequences. (Korean. Korean summary)
**Yagita, Nobuaki** *see* **Kudou, Kenji, 2001k:55028**
**Yoon, Yeon Soo** The generalized dual Gottlieb sets. (English summary) **2001i:55011**

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**Arkowitz, Martin** On Whitehead's inequality, $\mathrm{nil}[X, G] \leq \mathrm{cat}\, X$. (English summary) **2001k:55009**
**Fernández-Suárez, Lucía** On a problem of Ganea about strong category. (English summary) **2001b:55007**
**Hemmi, Yutaka** (*with* Lin, James P.) Odd generators of the mod 3 cohomology of finite $H$-spaces. (English summary) **2001d:55011**
**Lin, James P.** *see* **Hemmi, Yutaka, 2001d:55011**
**Maruyama, Ken-ichi** A subgroup of self homotopy equivalences which is invariant on genus. (English summary) **2001m:55019**
**McGibbon, C. A.** (*with* Roitberg, Joseph) Connective coverings, phantom maps and genus sets. (English summary) **2001a:55011**
**Oda, Nobuyuki** (*with* Shimizu, Toshiyuki[1]) Some formulas for the generalized Hardie-Jansen product and its dual. (English summary) **2001a:55012**
**Pan, Jian Zhong** (*with* Woo, Moo Ha) Exactness of $G$-sequences and monomorphisms. (English summary) **2001i:55015**
**Roitberg, Joseph** *see* **McGibbon, C. A., 2001a:55011**
**Shimizu, Toshiyuki[1]** *see* **Oda, Nobuyuki, 2001a:55012**
**Smirnov, V. A.[2]** $A_\infty$-structures and the functor $\mathscr{D}$. (Russian. Russian summary) **2001i:18017**
**Theriault, Stephen D.** Properties of Anick's spaces. (English summary) **2001f:55012**
**Wilson, W. Stephen** Hopf rings in algebraic topology. (English summary) **2001j:57050**
**Woo, Moo Ha** *see* **Pan, Jian Zhong, 2001i:55015**
**Yamaguchi, Kohhei** Self-homotopy equivalences of SO(4). (English summary) **2001a:55005**

## 55P47 Infinite loop spaces

**Lesh, Kathryn** A filtration of spectra arising from families of subgroups of symmetric groups. (English summary) **2001a:55010**
**Schlichtkrull, Christian** A discrete model of equivariant stable homotopy for cyclic groups. (English summary) **2001b:55027**
**Tillmann, Ulrike** Higher genus surface operad detects infinite loop spaces. (English summary) **2001m:55030**

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**Arlettaz, Dominique** Algebraic $K$-theory of rings from a topological viewpoint. (English summary) **2001i:19002**
**Campbell, H. E. A.** (*with* Kechagias, N. E.) Arnon completion of the Dyer-Lashof algebra. (English summary) **2001c:55011**
**Grayson, Daniel R.** (*with* Walker, Mark E.) Geometric models for algebraic $K$-theory. (English summary) **2001m:19006**
**Kechagias, N. E.** *see* **Campbell, H. E. A., 2001c:55011**
**Richter, Birgit** $E_\infty$-structure for $Q_*(R)$. (English summary) **2001e:16015**
**Tillmann, Ulrike** A splitting for the stable mapping class group. (English summary) **2001i:55019**
**Walker, Mark E.** *see* **Grayson, Daniel R., 2001m:19006**
**Wang, Zheng Dong[1]** Cocycles of loop groups. (English summary) **2001k:55023**

## 55P48 Loop space machines, operads [see also 18D50]

**Brinkmeier, Michael** The Milgram non-operad. (English and French summaries) **2001k:55029**
**Markl, Martin** Homotopy algebras via resolutions of operads. **2001e:55013**
**Smirnov, V. A.[2]** $A_\infty$-simplicial objects and $A_\infty$-topological groups. (Russian. Russian summary) **2001c:55007**

Items with secondary classifications in 55P48

**Chataur, David** Un modèle algébrique de la suite spectrale de Leray. (English and French summaries) [An algebraic model of the Leray spectral sequence] **2001m:18011**
**Fiorenza, Domenico** An introduction to operads. (*see* **2001k:53178**)
**Schwede, Stefan** (*with* Shipley, Brooke E.) Algebras and modules in monoidal model categories. **2001c:18006**
**Shipley, Brooke E.** *see* **Schwede, Stefan, 2001c:18006**
**Tillmann, Ulrike** Higher genus surface operad detects infinite loop spaces. (English summary) **2001m:55030**

## 55P55 Shape theory [see also 54C56, 55Q07]

**Dzadzamia, M.** Equivariant shape for $G$-pairs. (English summary)
**Ivanšić, Ivan** (*with* Rubin, Leonard R.; Schapiro, Philip J.) Extension shape theory. (English summary) **2001d:55005**
**Kołodziejczyk, Danuta** There exists a polyhedron with infinitely many left neighbors. (English summary) **2001g:55006**
**Koyama, Akira** Recent topics in geometric topology. (Japanese. Japanese summary) (*see* **2001m:54001**)
**Miyata, Takahisa** On shape theory and its applications. (*see* **2001m:54001**)
— Generalized stable shape and duality. (English summary) **2001h:55011**
**Mohorianu, Corina** Equivariant strong shape. I. (English summary) **2001e:55014**
**Rubin, Leonard R.** *see* **Ivanšić, Ivan et al., 2001d:55005**
**Schapiro, Philip J.** *see* **Ivanšić, Ivan et al., 2001d:55005**

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**Bykov, A. I.** Fibrant extensions and conditions of movability. (English summary) **2001g:54020**
**Isaksen, Daniel C.** A model structure on the category of pro-simplicial sets. (English summary) **2001m:18015**
**Jiménez, Rolando** (*with* de Neymet, Sylvia) Union of equivariant extensors and equivariant covering spaces. (English summary) **2001i:54015**
**Mardešić, Sibe** ★ Strong shape and homology. (English summary) **2001e:55006**
**de Neymet, Sylvia** *see* **Jiménez, Rolando, 2001i:54015**

## 55P57 Proper homotopy theory

Items with secondary classifications in 55P57

**Ferry, Steven C.** Stable compactifications of polyhedra. **2001k:57030**

## 55P60 Localization and completion

**Bousfield, A. K.** On the telescopic homotopy theory of spaces. (English summary) **2001k:55030**
**Casacuberta, Carles** On structures preserved by idempotent transformations of groups and homotopy types. (English summary) **2001i:55012**
— (*with* Scherer, Jérôme) Homological localizations preserve 1-connectivity. (English summary) **2001j:55008**
**Dwyer, William G.** (*with* Palmieri, John H.) Ohkawa's theorem: there is a set of Bousfield classes. **2001f:55015**
**Hakim-Hashemi, Mehdi** On certain localization functors and their structures in the stable range. (English summary)
**Hilton, Peter** (*with* Scevenels, Dirk) On the Mislin genus of certain circle bundles and noncancellation. (English summary) **2001m:55031**
**Palmieri, John H.** *see* **Dwyer, William G., 2001f:55015**
**Rodríguez, José Luis** (*with* Scevenels, Dirk) Iterating series of localization functors. (English summary) **2001k:55031**
— (*with* Scevenels, Dirk) Localizations associated to semidirect products. (English summary) **2001j:55009**
**Roitberg, Joseph** (*with* Touhey, Pat) The homotopy fiber of profinite completion. (English summary) **2001f:55016**
**Scevenels, Dirk** *see* **Rodríguez, José Luis, 2001j:55009; 2001k:55031** *and* **Hilton, Peter, 2001m:55031**
**Scherer, Jérôme** *see* **Casacuberta, Carles, 2001j:55008**
**Strickland, N. P.** Gross-Hopkins duality. (English summary) **2001d:55006**
**Tai, Jin-Yen** On localization of connective covers. (English summary) **2001m:55032**
**Touhey, Pat** *see* **Roitberg, Joseph, 2001f:55016**

Items with secondary classifications in 55P60

**Bendersky, Martin** (*with* Thompson, Robert D.) The Bousfield-Kan spectral sequence for periodic homology theories. (English summary) **2001i:55021**
**Bousfield, A. K.** On $K(n)$-equivalences of spaces. (English summary) **2001k:55013**
**Cassidy, Charles** (*with* Scevenels, Dirk) Strong genus of nilpotent groups of Hirsch length six. (English summary) **2001j:20050**
**Descheemaeker, An** (*with* Malfait, Wim) Virtually nilpotent groups with (almost) all localizations trivial. (English summary) **2001f:20072**
**Do, Ilyong** (*with* Pan, Jian Zhong) The Mislin genus, phantom maps and weak identities. (English summary) **2001b:55017**
**Félix, Yves** Two examples to illustrate properties of the group of self-equivalences of a finite CW complex $X$. (English summary) **2001m:55014**
**Garvín, Antonio** (*with* Murillo, Aniceto; Pavešić, P.; Viruel, Antonio) Nilpotency and localization of groups of fibre homotopy equivalences. (English summary) **2001m:55018**
**González, Jesús[2]** Stable $p$-equivalences of stunted lens spaces and stunted complex projective spaces. (English summary) **2001b:55020**
**Ishiguro, Kenshi** Classifying spaces and a subgroup of the exceptional Lie group $G_2$. (English summary) **2001m:55045**
**Kudou, Kenji** (*with* Yagita, Nobuaki) Correction to: "Modulo odd prime homotopy normality for $H$-spaces" [J. Math. Kyoto Univ. **38** (1998), no. 4, 643–651; MR 99m:55012]. **2001k:55028**
**Libman, Assaf** A note on the localization of finite groups. (English summary) **2001c:20108**
**Mahowald, Mark** (*with* Rezk, Charles) Brown-Comenetz duality and the Adams spectral sequence. (English summary) **2001a:55008**
**Malfait, Wim** *see* **Descheemaeker, An, 2001f:20072**
**Mandell, Michael A.** $E_\infty$ algebras and $p$-adic homotopy theory. (English summary) **2001m:55025**
**Maruyama, Ken-ichi** A subgroup of self homotopy equivalences which is invariant on genus. (English summary) **2001m:55019**
**Murillo, Aniceto** *see* **Garvín, Antonio et al., 2001m:55018**
**Neeman, Amnon** Oddball Bousfield classes. (English summary) **2001c:18007**
**Pan, Jian Zhong** (*with* Woo, Moo Ha) Phantom elements and its applications. (English summary) **2001k:55019**
— *see also* **Do, Ilyong, 2001b:55017**
**Pavešić, P.** *see* **Garvín, Antonio et al., 2001m:55018**
**Rezk, Charles** *see* **Mahowald, Mark, 2001a:55008**
**Rutter, John W.** Homotopy self-equivalences 1988–1999. (English summary) **2001m:55001**
**Scevenels, Dirk** *see* **Cassidy, Charles, 2001j:20050**
**Tai, Jin-Yen** On generalized plus-constructions of Eilenberg-Mac Lane spaces. (English summary) **2001m:55027**
**Thompson, Robert D.** *see* **Bendersky, Martin, 2001i:55021**
**Viruel, Antonio** *see* **Garvín, Antonio et al., 2001m:55018**
**Woo, Moo Ha** *see* **Pan, Jian Zhong, 2001k:55019**
**Yagita, Nobuaki** Classifying spaces of sporadic simple groups for odd primes. **2001f:20117**
— *see also* **Kudou, Kenji, 2001k:55028**

## 55P62 Rational homotopy theory

**Arkowitz, Martin** (*with* Lupton, Gregory) Rational obstruction theory and rational homotopy sets. (English summary) **2001h:55012**
**Ghorbal, Sonia** (*with* Jessup, Barry) Estimating the rational LS-category of elliptic spaces. (English summary) **2001k:55032**
**Golasiński, Marek** On injective and cofibrant equivariant minimal models. (English summary) **2001k:55033**

**Hauschild, Volker** Fibrations, self homotopy equivalences and negative derivations. (English summary) **2001m:55033**
**Hilali, Mohamed Rachid** Sur la conjecture de Halperin relative au rang torique. (English summary) [Halperin's conjecture concerning the torus rank] **2001c:55008**
**Jessup, Barry** *see* **Ghorbal, Sonia, 2001k:55032**
**Karoubi, Max** Braiding of differential forms and homotopy types. (English and French summaries) **2001j:55010**
**Lambrechts, Pascal** On the ranks of homotopy groups of two-cones. (English summary) **2001h:55013**
**Lillywhite, Steven** The topology of the moduli space of arc-length parametrised closed curves in Euclidean space. (English summary) **2001b:55028**
**Lupton, Gregory** *see* **Arkowitz, Martin, 2001h:55012**
**Majewski, Martin** Rational homotopical models and uniqueness. (English summary) **2001e:55015**
**Mukherjee, Goutam** (*with* Sankaran, Parameswaran) Minimal models of oriented Grassmannians and applications. (English summary) **2001i:55013**
**Parent, Paul-Eugène** LS category: product formulas. (English summary) **2001f:55017**
**Sankaran, Parameswaran** *see* **Mukherjee, Goutam, 2001i:55013**
**Simoncini, Fabio** Une note sur l'application d'évaluation en homotopie rationnelle. (English summary) [A note on the evaluation map in rational homotopy] **2001m:55034**
**Smith, Samuel Bruce** Rational type of classifying spaces for fibrations. (English summary) **2001m:55035**
**Yamaguchi, Toshihiro** Formality of the function space of free maps into an elliptic space. (English and French summaries) **2001d:55007**

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**Arkowitz, Martin** (*with* Lupton, Gregory; Murillo, Aniceto) Subgroups of the group of self-homotopy equivalences. (English summary) **2001m:55013**
**Cuvilliez, Maxence** L.S. category of the total space in a fibration and $k$-monomorphisms. (English summary) **2001m:55008**
**Dupont, Nicolas** (*with* Vigué-Poirrier, Micheline) Finiteness conditions for Hochschild homology algebra and free loop space cohomology algebra. (English summary) **2001j:13015**
**Fang, Fuquan** (*with* Rong, Xiaochun) Curvature, diameter, homotopy groups, and cohomology rings. (English summary) **2001k:53051**
**Fernández-Suárez, Lucia** A cancellation theorem for 2-cones. (English summary) **2001i:55004**
**Gatsinzi, J.-B.** A fibration with a section and of infinite genus. (English summary) **2001i:55016**
**Hauschild, Volker** Rational homotopy of circle actions. (English summary) **2001e:57039**
**Huebschmann, Johannes** Berikashvili's functor $D$ and the deformation equation. (English and Georgian summaries) **2001f:16022**
**Lambrechts, Pascal** Cochain model for thickenings and its application to rational LS-category. (English summary) **2001m:55009**
**Lê Minh Hà** (*with* Strom, Jeffrey) The Gray filtration on phantom maps. (English summary) **2001k:55040**
**Lupton, Gregory** *see* **Arkowitz, Martin et al., 2001m:55013**
**McGibbon, C. A.** (*with* Roitberg, Joseph) Connective coverings, phantom maps and genus sets. (English summary) **2001a:55011**
**Murillo, Aniceto** *see* **Arkowitz, Martin et al., 2001m:55013**
**Popescu, Călin** Characteristic zero loop space homology of two-cones. (English summary) **2001f:55010**
**Roig, Agustí** (*with* Saralegi Aranguren, Martin) Minimal models for non-free circle actions. (English summary) **2001j:57045**
**Roitberg, Joseph** *see* **McGibbon, C. A., 2001a:55011**
**Rong, Xiaochun** *see* **Fang, Fuquan, 2001k:53051**
**Rudyak, Yu. B.** (*with* Tralle, A. E.) On Thom spaces, Massey products, and nonformal symplectic manifolds. **2001h:53128**
**Rutter, John W.** Homotopy self-equivalences 1988–1999. (English summary) **2001m:55001**
**Saralegi Aranguren, Martin** *see* **Roig, Agustí, 2001j:57045**
**Strom, Jeffrey** *see* **Lê Minh Hà, 2001k:55040**
**Tralle, A. E.** Homotopy properties of closed symplectic manifolds. (English summary) **2001m:57047**
— *see also* **Rudyak, Yu. B., 2001h:53128**
**Vigué-Poirrier, Micheline** *see* **Dupont, Nicolas, 2001j:13015**

## 55P65 Homotopy functors

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**Baues, Hans-Joachim** (*with* Goerss, Paul G.) A homotopy operation spectral sequence for the computation of homotopy groups. **2001a:55006**
**Bousfield, A. K.** On the telescopic homotopy theory of spaces. (English summary) **2001k:55030**
**Chigogidze, Alex** (*with* Fedorchuk, V. V.) Menger (Nöbeling) manifolds versus Hilbert cube (space) manifolds—a categorical comparison. (English summary) **2001a:57034**
**Dragotti, S.** (*with* Magro, G.; Parlato, L.) On the groups $\Theta_n^{\mathcal{F}}$ of a sphere. (Italian summary) **2001h:55016**
**Fedorchuk, V. V.** *see* **Chigogidze, Alex, 2001a:57034**
**Goerss, Paul G.** *see* **Baues, Hans-Joachim, 2001a:55006**
**Hakim-Hashemi, Mehdi** On certain localization functors and their structures in the stable range. (English summary)
**Magro, G.** *see* **Dragotti, S. et al., 2001h:55016**
**Pan, Jian Zhong** (*with* Woo, Moo Ha) Exactness of $G$-sequences and monomorphisms. (English summary) **2001i:55015**
**Parlato, L.** *see* **Dragotti, S. et al., 2001h:55016**
**Son, Hong-Chan** On the $G(F)$-sequence of a CW-triple. (English summary) **2001f:55014**
**Woo, Moo Ha** *see* **Pan, Jian Zhong, 2001i:55015**

## 55P91 Equivariant homotopy theory [see also 19L47]

**Golasiński, Marek** (*with* Gonçalves, Daciberg Lima) Equivariant Gottlieb groups. (French summary) **2001m:55036**
**Gonçalves, Daciberg Lima** *see* **Golasiński, Marek, 2001m:55036**
**Gritsch, Ursula** The homotopy type of hyperbolic monopole orbit spaces. (English summary) **2001b:55029**
**Izydorek, Marek** (*with* Vidal, Antonio) An example concerning equivariant deformations. (English summary) **2001e:55016**
**Klein, John R.** The dualizing spectrum of a topological group. (English summary) **2001m:55037**
**Rourke, Colin** (*with* Sanderson, Brian) Equivariant configuration spaces. (English summary) **2001h:55014**
**Sanderson, Brian** *see* **Rourke, Colin, 2001h:55014**
**Vidal, Antonio** *see* **Izydorek, Marek, 2001e:55016**

Items with secondary classifications in 55P91

**Bauer, Sven** (*with* Crabb, M. C.; Spreafico, Mauro) The space of free loops on a real projective space. (English summary) **2001m:55028**
**Crabb, M. C.** *see* **Bauer, Sven et al., 2001m:55028**
**Ferrario, Davide L.** Self homotopy equivalences of equivariant spheres. (English summary) **2001m:55017**
**Golasiński, Marek** On injective and cofibrant equivariant minimal models. (English summary) **2001k:55033**
**Lee, Hyang-Sook** Homotopy fixed point set for $p$-compact toral group. (English summary) **2001i:55002**
**Lillywhite, Steven** The topology of the moduli space of arc-length parametrised closed curves in Euclidean space. (English summary) **2001b:55028**
**Mohorianu, Corina** Equivariant strong shape. I. (English summary) **2001e:55014**
**Sawashita, Norichika** On equivariant self-homotopy equivalences of $G$-CW complexes. (English summary) **2001h:55008**
**Spreafico, Mauro** *see* **Bauer, Sven et al., 2001m:55028**

## 55P92 Relations between equivariant and nonequivariant homotopy theory

Items with secondary classifications in 55P92

**Kriz, Igor** The $\mathbf{Z}/p$-equivariant complex cobordism ring. **2001b:55010**
**Madsen, Ib Henning** (*with* Schlichtkrull, Christian) The circle transfer and $K$-theory. (English summary) **2001e:55021**
**Schlichtkrull, Christian** *see* **Madsen, Ib Henning, 2001e:55021**
**Webb, Peter** A guide to Mackey functors. **2001f:20031**

## 55P99 None of the above, but in this section

**Kamiyama, Yasuhiko** Topology of equilateral polygon linkages in the Euclidean plane modulo isometry group. **2001h:55015**
**Mutlu, Ali** Join for (augmented) simplicial group. (English summary) **2001e:55017**
**Podkorytov, S. S.** The order of a function on the Brushlinskiĭ group. (Russian. English and Russian summaries) **2001g:55007**
**Shimizu, Toshiyuki**[1] A generation [generalization] of the Hopf construction. **2001d:55008**

Items with secondary classifications in 55P99

**Barcelo, Hélène** (*with* Kramer, Xenia; Laubenbacher, Reinhard C.; Weaver, Christopher) Foundations of a connectivity theory for simplicial complexes. (English summary) **2001k:57029**
**Cegarra, A. M.** Homotopy representability of Brauer groups. **2001j:16023**
**Červar, Branko** *see* **Uglešić, Nikica, 2001b:54014**
**Chari, Manoj K.** On discrete Morse functions and combinatorial decompositions. (English and French summaries) **2001g:52016**
**Deligiannis, Athanasios** Ganea comonads. (English summary) **2001e:55003**
**Fukuhara, Kenzo** A generalization of Ganea's theorem on a fibration. **2001g:55009**
— A generalization of Ganea's theorem on a fibration. II. **2001g:55010**
**Hamanaka, Hiroaki** (*with* Kono, Akira[1]) Homotopy-commutativity in spinor groups. **2001k:57044**
**Heller, Alex** Semistability and infinite loop spaces. (English summary) **2001f:18024**
**Kono, Akira**[1] *see* **Hamanaka, Hiroaki, 2001k:57044**
**Kramer, Xenia** *see* **Barcelo, Hélène et al., 2001k:57029**
**Laubenbacher, Reinhard C.** *see* **Barcelo, Hélène et al., 2001k:57029**
**McGibbon, C. A.** (*with* Roitberg, Joseph) Connective coverings, phantom maps and genus sets. (English summary) **2001a:55011**
**Roitberg, Joseph** *see* **McGibbon, C. A., 2001a:55011**
**Sakai, Katsuro** The completions of metric ANR's and homotopy dense subsets. (English summary) **2001f:57025**
**Sundaram, Sheila** On the topology of two partition posets with forbidden block sizes. (English summary) **2001j:06006**
**Taylor, Walter** Spaces and equations. (English summary) **2001g:08005**
**Uglešić, Nikica** (*with* Červar, Branko) Surjective simplicial inverse systems. (English summary) **2001b:54014**
**Weaver, Christopher** *see* **Barcelo, Hélène et al., 2001k:57029**
**Yi, Jian Xin** Weak-colimits and their properties. (Chinese. English and Chinese summaries)

# 55Qxx Homotopy groups

## 55Q05 Homotopy groups, general; sets of homotopy classes

**Blanc, David** CW simplicial resolutions of spaces with an application to loop spaces. (English summary) **2001j:55011**

**Dehon, François-Xavier** (*with* Lannes, Jean) Sur les espaces fonctionnels dont la source est le classifiant d'un groupe de Lie compact commutatif. (English and French summaries) [Functional spaces whose source is the classifying space of a commutative compact Lie group] **2001m:55038**
**Dragotti, S.** (*with* Magro, G.; Parlato, L.) On the groups $\Theta_n^{\mathcal{F}}$ of a sphere. (Italian summary) **2001h:55016**
**Golasiński, Marek** (*with* Gonçalves, Daciberg Lima) Postnikov towers and Gottlieb groups of orbit spaces. (English summary) **2001m:55039**
**Gonçalves, Daciberg Lima** *see* **Golasiński, Marek, 2001m:55039**
**Hardie, K. A.** (*with* Kamps, K. H.) The homotopy groups of the homotopy fibre of an induced map of function spaces. (English summary) **2001m:55040**
**Joyal, André** (*with* Tierney, Myles) On the theory of path groupoids. (English summary) **2001j:55012**
**Kahn, Donald** (*with* Schwartz, Christopher) The structure of the Hurewicz homomorphism. **2001k:55034**
**Kamata, Masayoshi** (*with* Minami, Haruo) The special orthogonal groups $SO(2n)$ as framed boundaries. **2001e:55018**
**Kamps, K. H.** *see* **Hardie, K. A., 2001m:55040**
**Lannes, Jean** *see* **Dehon, François-Xavier, 2001m:55038**
**Magro, G.** *see* **Dragotti, S. et al., 2001h:55016**
**McGibbon, C. A.** (*with* Roitberg, Joseph) Connective coverings, phantom maps and genus sets. (English summary) **2001a:55011**
**Minami, Haruo** *see* **Kamata, Masayoshi, 2001e:55018**
**Ōshima, Hideaki** (*with* Yagita, Nobuaki) Non commutativity of self homotopy groups. (English summary) **2001i:55014**
**Parlato, L.** *see* **Dragotti, S. et al., 2001h:55016**
**Roitberg, Joseph** *see* **McGibbon, C. A., 2001a:55011**
**Schwartz, Christopher** *see* **Kahn, Donald, 2001k:55034**
**Tierney, Myles** *see* **Joyal, André, 2001j:55012**
**Yagita, Nobuaki** *see* **Ōshima, Hideaki, 2001i:55014**

Items with secondary classifications in 55Q05

**Arkowitz, Martin** (*with* Lupton, Gregory; Murillo, Aniceto) Subgroups of the group of self-homotopy equivalences. (English summary) **2001m:55013**
— On Whitehead's inequality, $\operatorname{nil}[X, G] \leq \operatorname{cat} X$. (English summary) **2001k:55009**
**Barcelo, Hélène** (*with* Kramer, Xenia; Laubenbacher, Reinhard C.; Weaver, Christopher) Foundations of a connectivity theory for simplicial complexes. (English summary) **2001k:57029**
**Do, Ilyong** Phantom maps and spaces of the same $n$-type for all $n$. (English summary) **2001b:55018**
**Fang, Fuquan** (*with* Rong, Xiaochun) Curvature, diameter, homotopy groups, and cohomology rings. (English summary) **2001k:53051**
**Ferrario, Davide L.** Self homotopy equivalences of equivariant spheres. (English summary) **2001m:55017**
**Hardie, K. A.** (*with* Kamps, K. H.; Kieboom, R. W.) A homotopy 2-groupoid of a Hausdorff space. (English summary) **2001h:18008**
**Kamps, K. H.** *see* **Hardie, K. A. et al., 2001h:18008**
**Kieboom, R. W.** *see* **Hardie, K. A. et al., 2001h:18008**
**Klaus, Stephan** On the homotopy relation and self equivalences. (English summary) **2001i:55010**
**Kramer, Xenia** *see* **Barcelo, Hélène et al., 2001k:57029**
**Laubenbacher, Reinhard C.** *see* **Barcelo, Hélène et al., 2001k:57029**
**Lupton, Gregory** *see* **Arkowitz, Martin et al., 2001m:55013**
**Murillo, Aniceto** *see* **Arkowitz, Martin et al., 2001m:55013**
**Mutlu, Ali** (*with* Porter, Timothy) Freeness conditions for crossed squares and squared complexes. (English summary) **2001j:18016**
**Ōshima, Hideaki** Self-homotopy set of a Hopf space. **2001a:55009**
— Self homotopy group of the exceptional Lie group $G_2$. **2001f:55013**
**Porter, Timothy** *see* **Mutlu, Ali, 2001j:18016**
**Preuß, Gerhard** Some algebraically topological aspects in the realm of convenient topology. (English summary) **2001j:54001**
**Rong, Xiaochun** *see* **Fang, Fuquan, 2001k:53051**
**Sawashita, Norichika** On equivariant self-homotopy equivalences of $G$-CW complexes. (English summary) **2001h:55008**
**Weaver, Christopher** *see* **Barcelo, Hélène et al., 2001k:57029**
**Yamaguchi, Kohhei** Self-homotopy equivalences of SO(4). (English summary) **2001a:55005**

## 55Q10 Stable homotopy groups

Items with secondary classifications in 55Q10

**Morisugi, Kaoru** Composition structure of the self maps of SU(3) or Sp(2). (English summary) **2001m:55020**
**Schwänzl, R.** (*with* Vogt, R. M.; Waldhausen, F.) Topological Hochschild homology. **2001h:55009**
**Vogt, R. M.** *see* **Schwänzl, R. et al., 2001h:55009**
**Waldhausen, F.** *see* **Schwänzl, R. et al., 2001h:55009**

## 55Q15 Whitehead products and generalizations

**Gray, Brayton** Associativity in two-cell complexes. **2001f:55018**
**Oda, Nobuyuki** (*with* Shimizu, Toshiyuki[1]) Some formulas for the generalized Hardie-Jansen product and its dual. (English summary) **2001a:55012**
**Shimizu, Toshiyuki[1]** *see* **Oda, Nobuyuki, 2001a:55012**

Items with secondary classifications in 55Q15

**Baues, Hans-Joachim** (*with* Goerss, Paul G.) A homotopy operation spectral sequence for the computation of homotopy groups. **2001a:55006**
**Goerss, Paul G.** *see* **Baues, Hans-Joachim, 2001a:55006**
**Morisugi, Kaoru** (*with* Mukai, Juno) Lifting to mod 2 Moore spaces. (English summary) **2001a:55013**
**Mukai, Juno** *see* **Morisugi, Kaoru, 2001a:55013**
**Theriault, Stephen D.** Properties of Anick's spaces. (English summary) **2001f:55012**

## 55Q20 Homotopy groups of wedges, joins, and simple spaces

**Şerbetçi, Ayhan** On the sheaf of triad homotopy groups and some characterizations. (English summary) **2001j:55013**

Items with secondary classifications in 55Q20

**Eda, Katsuya** (*with* Kawamura, Kazuhiro) Homotopy and homology groups of the $n$-dimensional Hawaiian earring. (English summary) **2001j:55014**
**Kawamura, Kazuhiro** *see* **Eda, Katsuya, 2001j:55014**
**Lambrechts, Pascal** On the ranks of homotopy groups of two-cones. (English summary) **2001h:55013**
**Mutlu, Ali** (*with* Porter, Timothy) Freeness conditions for crossed squares and squared complexes. (English summary) **2001j:18016**
**Porter, Timothy** *see* **Mutlu, Ali, 2001j:18016**

## 55Q25 Hopf invariants

**Akhmet'ev, P. M.** (*with* Szűcs, András) Geometric proof of the easy part of the Hopf invariant one theorem. (English summary) **2001m:55041**
**Szűcs, András** *see* **Akhmet'ev, P. M., 2001m:55041**

Items with secondary classifications in 55Q25

**Akhmet'ev, P. M.** Embeddings of compacta, stable homotopy groups of spheres, and singularity theory. (Russian. Russian summary) **2001h:55017**
**Jahn, O.** Instantons and monopoles in general abelian gauges. (English summary) **2001i:81166**
**Stolz, Stephan** Multiplicities of Dupin hypersurfaces. (English summary) **2001d:53065**
**Theriault, Stephen D.** Anick's spaces and the double loops of odd primary Moore spaces. (English summary) **2001f:55011**
**Vandembroucq, Lucile** Suspension of Ganea fibrations and a Hopf invariant. (English summary) **2001c:55002**

## 55Q35 Operations in homotopy groups

Items with secondary classifications in 55Q35

**Blanc, David** CW simplicial resolutions of spaces with an application to loop spaces. (English summary) **2001j:55011**
**Hardie, K. A.** (*with* Kamps, K. H.; Kieboom, R. W.) A homotopy 2-groupoid of a Hausdorff space. (English summary) **2001h:18008**
— (*with* Kamps, K. H.) The homotopy groups of the homotopy fibre of an induced map of function spaces. (English summary) **2001m:55040**
**Kamps, K. H.** *see* **Hardie, K. A. et al., 2001h:18008** *and* **2001m:55040**
**Kieboom, R. W.** *see* **Hardie, K. A. et al., 2001h:18008**

## 55Q40 Homotopy groups of spheres

**Wang, Xiang Jun[1]** The combinatorial description of homotopy groups of sphere. (English summary) **2001k:55035**

Items with secondary classifications in 55Q40

**Bendersky, Martin** (*with* Thompson, Robert D.) The Bousfield-Kan spectral sequence for periodic homology theories. (English summary) **2001i:55021**
**Li, Shu Hua** Dilatation of composition mappings. (Chinese. English and Chinese summaries)
**Morisugi, Kaoru** (*with* Mukai, Juno) Lifting to mod 2 Moore spaces. (English summary) **2001a:55013**
**Mukai, Juno** *see* **Morisugi, Kaoru, 2001a:55013**
**Neisendorfer, Joseph** A survey of Anick-Gray-Theriault constructions and applications to the exponent theory of spheres and Moore spaces. (English summary) **2001j:55007**
**Stolz, Stephan** Multiplicities of Dupin hypersurfaces. (English summary) **2001d:53065**
**Szűcs, András** Two theorems of Rokhlin. (English and Russian summaries) **2001k:57036**
**Thompson, Robert D.** *see* **Bendersky, Martin, 2001i:55021**
**Zeng, Ze Min** Dilatation of maps between two spheres. (Chinese. English and Chinese summaries)

## 55Q45 Stable homotopy of spheres

**Akhmet'ev, P. M.** Embeddings of compacta, stable homotopy groups of spheres, and singularity theory. (Russian. Russian summary) **2001h:55017**
**Podkorytov, S. S.** An alternative proof of a weak form of Serre's theorem. (Russian. English and Russian summaries) **2001d:55009**

Items with secondary classifications in 55Q45

**Kamata, Masayoshi** (*with* Minami, Haruo) The special orthogonal groups $SO(2n)$ as framed boundaries. **2001e:55018**
**Minami, Haruo** *see* **Kamata, Masayoshi, 2001e:55018**
**Singh, Neeta** An infinite family in the stable cohomotopy of certain Thom spaces. (English summary)
**Szűcs, András** Two theorems of Rokhlin. (English and Russian summaries) **2001k:57036**
**Tan, K. F.** (*with* Xu, Kai) Dickson invariants hit by the Steenrod square. (English summary) **2001g:55017**
**Xu, Kai** *see* **Tan, K. F., 2001g:55017**

## 55Q52 Homotopy groups of special spaces

**Eda, Katsuya** (*with* Kawamura, Kazuhiro) Homotopy and homology groups of the $n$-dimensional Hawaiian earring. (English summary) **2001j:55014**
— The fundamental groups of certain one-dimensional spaces. (English summary) **2001g:55008**
**Kawamura, Kazuhiro** *see* **Eda, Katsuya, 2001j:55014**
**Morisugi, Kaoru** (*with* Mukai, Juno) Lifting to mod 2 Moore spaces. (English summary) **2001a:55013**
**Mukai, Juno** *see* **Morisugi, Kaoru, 2001a:55013**
**Neisendorfer, Joseph** James-Hopf invariants, Anick's spaces, and the double loops on odd primary Moore spaces. (English summary) **2001e:55019**

Items with secondary classifications in 55Q52

**Hirato, Yoshihiro** (*with* Kachi, Hideyuki; Mimura, Mamoru) Homotopy groups of the homogeneous spaces $F_4/G_2$, $F_4/\mathrm{Spin}(9)$ and $E_6/F_4$. (English summary) **2001m:57065**
**Kachi, Hideyuki** *see* **Hirato, Yoshihiro et al., 2001m:57065**
**Kaliman, Shulim** Uniform Zariski's theorem on fundamental groups. (English summary) **2001e:14022**
**Lambrechts, Pascal** On the ranks of homotopy groups of two-cones. (English summary) **2001h:55013**
**Mimura, Mamoru** *see* **Hirato, Yoshihiro et al., 2001m:57065**
**Morisugi, Kaoru** Composition structure of the self maps of $SU(3)$ or $Sp(2)$. (English summary) **2001m:55020**
**Tchernov, Vladimir** Homotopy groups of the space of curves on a surface. (English summary) **2001b:57070**

## 55Q55 Cohomotopy groups

**Singh, Neeta** An infinite family in the stable cohomotopy of certain Thom spaces. (English summary)

Items with secondary classifications in 55Q55

**Duflot, Jeanne** (*with* Marak, C. Tyrel) A filtration in algebraic $K$-theory. (English summary) **2001f:19001**
**Gabor, Dorota** (*with* Kryszewski, Wojciech) A coincidence theory involving Fredholm operators of nonnegative index. (English summary) **2001i:47098**
**Kryszewski, Wojciech** *see* **Gabor, Dorota, 2001i:47098**
**Marak, C. Tyrel** *see* **Duflot, Jeanne, 2001f:19001**

## 55Q70 Homotopy groups of special types [see also 55N05, 55N07]

**Pan, Jian Zhong** (*with* Woo, Moo Ha) Exactness of $G$-sequences and monomorphisms. (English summary) **2001i:55015**
**Woo, Moo Ha** *see* **Pan, Jian Zhong, 2001i:55015**

Items with secondary classifications in 55Q70

**Bassetto, A.** (*with* Griguolo, L.; Vian, Federica) Wilson loops in the adjoint representation and multiple vacua in two-dimensional Yang-Mills theory. (English summary) **2001i:81163**
**Griguolo, L.** *see* **Bassetto, A. et al., 2001i:81163**
**Vian, Federica** *see* **Bassetto, A. et al., 2001i:81163**

## 55Q91 Equivariant homotopy groups [see also 19L47]

Items with secondary classifications in 55Q91

**Kriz, Igor** The $\mathbf{Z}/p$-equivariant complex cobordism ring. **2001b:55010**

## 55Q99 None of the above, but in this section

Items with secondary classifications in 55Q99

**Bechtluft-Sachs, Stefan** (*with* Hien, Marco) The global defect index. (English summary) **2001a:82079**
**Hien, Marco** *see* **Bechtluft-Sachs, Stefan, 2001a:82079**

# 55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

## 55R05 Fiber spaces

**Booth, Peter I.** Fibrations with product of Eilenberg-MacLane space fibres. I. (English summary) **2001m:55042**
**Fukuhara, Kenzo** A generalization of Ganea's theorem on a fibration. **2001g:55009**
— A generalization of Ganea's theorem on a fibration. II. **2001g:55010**
**Gatsinzi, J.-B.** A fibration with a section and of infinite genus. (English summary) **2001i:55016**
**Magiropoulos, Manolis** Induced fibrations on spaces of fiber transferring maps: the $C^r$ case. (English summary) **2001m:55043**

Items with secondary classifications in 55R05

**Arkowitz, Martin** Equivalent definitions of the Ganea fibrations and cofibrations. (English summary) **2001a:55003**
**Booth, Peter I.** Fibrations and classifying spaces: overview and the classical examples. (French summary) **2001f:18025**
**Cobb, Robin J.** Infra-solvmanifolds of dimension four. **2001g:57029**
**Hardie, K. A.** (*with* Kamps, K. H.) The homotopy groups of the homotopy fibre of an induced map of function spaces. (English summary) **2001m:55040**
**Hauschild, Volker** Fibrations, self homotopy equivalences and negative derivations. (English summary) **2001m:55033**
**Kamps, K. H.** *see* **Hardie, K. A., 2001m:55040**
**Kawamoto, Yusuke** Homotopy classification of higher homotopy commutative loop spaces with finitely generated cohomology. (English summary) **2001e:55011**
**Kim, Yongkuk** Manifolds with hyper-Hopfian fundamental group as codimension-2 fibrators. (English summary) **2001c:57026**
**Korbaš, Július** On fibrations with Grassmannian fibers. **2001j:55015**
**Korkmaz, Mustafa** (*with* Ozbagci, Burak) Minimal number of singular fibers in a Lefschetz fibration. (English summary) **2001h:57019**
**Ozbagci, Burak** *see* **Korkmaz, Mustafa, 2001h:57019**
**Siebert, Bernd** (*with* Tian, Gang) On hyperelliptic $C^\infty$-Lefschetz fibrations of four-manifolds. (English summary) **2001g:57053**
**Smith, Samuel Bruce** Rational type of classifying spaces for fibrations. (English summary) **2001m:55035**
**Stanley, Donald** The sectional category of spherical fibrations. (English summary) **2001a:55004**
**Tian, Gang** *see* **Siebert, Bernd, 2001g:57053**
**Tralle, A. E.** Homotopy properties of closed symplectic manifolds. (English summary) **2001m:57047**

## 55R10 Fiber bundles

**Bechtluft-Sachs, Stefan** (*with* Hien, Marco) Sets of fibre homotopy classes and twisted order parameter spaces. (English summary) **2001e:55020**
**Gorbatsevich, V. V.** On the triviality of a natural fibration of some compact homogeneous spaces. (Russian) **2001g:55011**
**Hien, Marco** *see* **Bechtluft-Sachs, Stefan, 2001e:55020**
**Hoster, M.** (*with* Kotschick, D.) On the simplicial volumes of fiber bundles. (English summary) **2001g:55012**
**Kotschick, D.** *see* **Hoster, M., 2001g:55012**
**Marcu, Dănuț** A note on stably fibre homotopic trivial vector bundles. (English summary)
**Saiers, Nelson** The cobordism classification of projective space bundles. (English summary) **2001h:55018**

Items with secondary classifications in 55R10

**Bonora, L.** (*with* Rinaldi, Maurizio) Normal bundles, Pfaffians and anomalies. (English summary) **2001j:81158**
**Crabb, M. C.** (*with* Sutherland, W. A.) Counting homotopy types of gauge groups. **2001m:55024**
**Geiges, Hansjörg** *see* **Müller, Stefan[1], 2001g:57049**
**Landi, Giovanni** Deconstructing monopoles and instantons. (English summary) **2001m:53044**
**Müller, Stefan[1]** (*with* Geiges, Hansjörg) Almost complex structures on 8-manifolds. **2001g:57049**
**Rinaldi, Maurizio** *see* **Bonora, L., 2001j:81158**
**Shiga, Hiroo** (*with* Tsukiyama, K.; Yamaguchi, Toshihiro) Principal $S^1$-bundles and forgetful maps. (English summary) **2001m:55022**
**Sutherland, W. A.** *see* **Crabb, M. C., 2001m:55024**
**Tsukiyama, K.** *see* **Shiga, Hiroo et al., 2001m:55022**
**Yamaguchi, Toshihiro** *see* **Shiga, Hiroo et al., 2001m:55022**
**Zisman, M.** Fibre bundles, fibre maps. **2001b:55001**

## 55R12 Transfer

**Madsen, Ib Henning** (*with* Schlichtkrull, Christian) The circle transfer and $K$-theory. (English summary) **2001e:55021**
**Schlichtkrull, Christian** *see* **Madsen, Ib Henning, 2001e:55021**

Items with secondary classifications in 55R12

**Bakuradze, M.** On symplectic cobordism of real projective plane. (English summary) **2001e:57036**
**Becker, James C.** (*with* Gottlieb, Daniel Henry) A history of duality in algebraic topology. **2001e:55001**
**Bukhshtaber, V. M.** (*with* Fel'dman, K. È.) The index of an equivariant vector field, and addition theorems for Pontryagin characteristic classes. (Russian. Russian summary) **2001i:57041**
**Fel'dman, K. È.** *see* **Bukhshtaber, V. M., 2001i:57041**
**Gottlieb, Daniel Henry** *see* **Becker, James C., 2001e:55001**
**Lott, John** Secondary analytic indices. (English summary) **2001c:58024**

## 55R15 Classification

**Kramer, Linus** The point and line space of a compact projective plane are homeomorphic. (English summary) **2001c:55009**

Items with secondary classifications in 55R15

**Boo, Deok-Hoon** (*with* Park, Chun-Gil) The fundamental group of the automorphism group of a noncommutative torus. (English summary) **2001k:46115**
— (*with* Park, Chun-Gil; Park, Won-Gil) Strong Morita equivalence for projective non-commutative tori. (English summary) **2001f:46091**
**Booth, Peter I.** Fibrations with product of Eilenberg-MacLane space fibres. I. (English summary) **2001m:55042**
**Huebschmann, Johannes** Berikashvili's functor $D$ and the deformation equation. (English and Georgian summaries) **2001f:16022**
**Park, Chun-Gil** *see* **Boo, Deok-Hoon et al., 2001f:46091** *and* **2001k:46115**
**Park, Won-Gil** *see* **Boo, Deok-Hoon et al., 2001f:46091**

## 55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

**Choi, Younggi** On the Bockstein lemma. (English summary) **2001e:55022**
**Korbaš, Július** On cohomology of fiber bundles with Grassmannian fibers. (English summary) (*see* **2001i:00034**)
— On fibrations with Grassmannian fibers. **2001j:55015**
**Nishimura, Osamu** On the Hopf algebra structure of the mod 3 cohomology of the exceptional Lie group of type $E_6$. **2001j:55016**
— The Hopf algebra structure of the cohomology of the 3-connective fibre space over the special unitary group. **2001j:55017**

Items with secondary classifications in 55R20

**Álvarez López, J. A.** (*with* Kordyukov, Yurīĭ A.) Adiabatic limits and spectral sequences for Riemannian foliations. (English summary) **2001k:58048**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Dotzel, Ronald M.** (*with* Singh, Tej B.; Tripathi, Satya P.) The cohomology rings of the orbit spaces of free transformation groups of the product of two spheres. (English summary) **2001f:57037**
**Ginzburg, Viktor L.** Equivariant Poisson cohomology and a spectral sequence associated with a moment map. (English summary) **2001g:53143**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Kamiyama, Yasuhiko** Topology of equilateral polygon linkages in the Euclidean plane modulo isometry group. **2001h:55015**
**Kordyukov, Yurīĭ A.** *see* **Álvarez López, J. A., 2001k:58048**
**Singh, Tej B.** *see* **Dotzel, Ronald M. et al., 2001f:57037**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**
**Torii, Takeshi** Level structure over $\widehat{E(n)}$ and stable splitting by Steinberg idempotent. **2001b:55012**
**Tripathi, Satya P.** *see* **Dotzel, Ronald M. et al., 2001f:57037**
**Yau, Donald** Cohomology of unitary and symplectic groups. (English summary) **2001f:57039**

## 55R25 Sphere bundles and vector bundles

**Kitchloo, Nitu** (*with* Shankar, Krishnan) On complexes equivalent to $S^3$-bundles over $S^4$. **2001m:55044**
**Shankar, Krishnan** *see* **Kitchloo, Nitu, 2001m:55044**

Items with secondary classifications in 55R25

**Barufatti, Nelza E.** (*with* Hacon, Derek) $K$-theory of projective Stiefel manifolds. (English summary) **2001b:55008**
**Bousaidi, M. A.** Multiplicative structure of the ring $K(S(T^*\mathbb{R}P^{2n+1}))$. (English summary) **2001c:19004**
**De Sapio, Rodolfo** (*with* Walschap, Gerard) Diffeomorphism of total spaces and equivalence of bundles. (English summary) **2001j:57038**
**Hacon, Derek** *see* **Barufatti, Nelza E., 2001b:55008**
**Izydorek, Marek** (*with* Marzantowicz, Wacław) The Borsuk-Ulam property for cyclic groups. (English summary) **2001k:55006**
**Jakob, Martin** An alternative approach to homology. (English summary) **2001k:55014**
**Marzantowicz, Wacław** *see* **Izydorek, Marek, 2001k:55006**
**Saiers, Nelson** The cobordism classification of projective space bundles. (English summary) **2001h:55018**
**Walschap, Gerard** *see* **De Sapio, Rodolfo, 2001j:57038**

## 55R35 Classifying spaces of groups and $H$-spaces

**Benson, David John** Cohomology of sporadic groups, finite loop spaces, and the Dickson invariants. **2001i:55017**
**Ishiguro, Kenshi** Classifying spaces and a subgroup of the exceptional Lie group $G_2$. (English summary) **2001m:55045**
**Lück, Wolfgang** (*with* Meintrup, David) On the universal space for group actions with compact isotropy. (English summary) **2001e:55023**
— The type of the classifying space for a family of subgroups. (English summary) **2001i:55018**
**Meintrup, David** *see* **Lück, Wolfgang, 2001e:55023**
**Tillmann, Ulrike** A splitting for the stable mapping class group. (English summary) **2001i:55019**
**Viruel, Antonio** $E_8$ is a totally $N$-determined 5-compact group. (English summary) **2001m:55046**

Items with secondary classifications in 55R35

**Akita, Toshiyuki** Cohomology of discrete groups and their finite subgroups. (English summary) **2001g:20062**
**Brinkmeier, Michael** Strongly homotopy-commutative monoids revisited. (English summary) **2001k:55026**
**Green, David John** (*with* Phạm Anh Minh) Almost all extraspecial $p$-groups are Swan groups. (English summary) **2001h:20077**
**Hemmi, Yutaka** (*with* Lin, James P.) Odd generators of the mod 3 cohomology of finite $H$-spaces. (English summary) **2001d:55011**
**Iwase, Norio** (*with* Kono, Akira[1]) Adjoint action of a finite loop space. II. (English summary) **2001b:55022**
**Kono, Akira[1]** *see* **Iwase, Norio, 2001b:55022**
**Lin, James P.** *see* **Hemmi, Yutaka, 2001d:55011**
**Murray, Michael K.** (*with* Stevenson, Daniel) Bundle gerbes: stable isomorphism and local theory. (English summary) **2001j:55019**
**Neumann, Frank[1]** A theorem of Tits, normalizers of maximal tori and fibrewise Bousfield-Kan completions. (English summary) **2001j:22011**
**Notbohm, D.** The finiteness obstruction for loop spaces. (English summary) **2001e:55012**
**Phạm Anh Minh** *see* **Green, David John, 2001h:20077**
**Stevenson, Daniel** *see* **Murray, Michael K., 2001j:55019**
**Tamanoi, Hirotaka** Spectra of BP-linear relations, $v_n$-series, and BP cohomology of Eilenberg-Mac Lane spaces. (English summary) **2001b:55023**
**Tillmann, Ulrike** Higher genus surface operad detects infinite loop spaces. (English summary) **2001m:55030**
**Wiest, Bert** Loop spaces and the compression theorem. (English summary) **2001b:55024**
**Yagita, Nobuaki** Classifying spaces of sporadic simple groups for odd primes. **2001f:20117**

## 55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

Items with secondary classifications in 55R40

**Akita, Toshiyuki** Cohomology of discrete groups and their finite subgroups. (English summary) **2001g:20062**
**Broto, K.** (*with* Vershinin, Vladimir V.) On the generalized homology of Artin groups. (Russian. English and Russian summaries) **2001f:20077**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Duan, Haibao** Characteristic classes for complex bundles with trivial real reduction. (English summary) **2001g:57055**
**Gilkey, Peter B.** The eta invariant of Pin manifolds with cyclic fundamental groups. (English summary) **2001a:58034**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Hopkins, Michael J.** (*with* Kuhn, Nicholas J.; Ravenel, Douglas C.) Generalized group characters and complex oriented cohomology theories. **2001k:55015**
**Huebschmann, Johannes** Extensions of Lie-Rinehart algebras and the Chern-Weil construction. (English summary) **2001b:17035**
**Kriz, Igor** (*with* Lee, Kevin P.) Odd-degree elements in the Morava $K(n)$ cohomology of finite groups. (English summary) **2001f:55008**
**Kubarski, Jan** Algebroid nature of the characteristic classes of flat bundles. (English summary) **2001a:53047**
**Kuhn, Nicholas J.** *see* **Hopkins, Michael J. et al., 2001k:55015**
**Lee, Kevin P.** *see* **Kriz, Igor, 2001f:55008**
**Mishchenko, A. S.** The local combinatorial Hirzebruch formula. (Russian) **2001a:57036**
**Ravenel, Douglas C.** *see* **Hopkins, Michael J. et al., 2001k:55015**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**
**Torii, Takeshi** Topological realization of level structures of the formal group law over $\widehat{E(n)}$. **2001b:55011**
**Vershinin, Vladimir V.** *see* **Broto, K., 2001f:20077**

## 55R45 Homology and homotopy of $BO$ and $BU$; Bott periodicity

**Hurtubise, David E.** (*with* Sanders, Marc D.) Compactified spaces of holomorphic curves in complex Grassmann manifolds. (English summary) **2001h:55019**
**Sanders, Marc D.** *see* **Hurtubise, David E., 2001h:55019**

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**Morisugi, Kaoru** Composition structure of the self maps of SU(3) or Sp(2). (English summary) **2001m:55020**

## 55R50 Stable classes of vector space bundles, $K$-theory [see also 19Lxx] {For algebraic $K$-theory, see 18F25, 19–XX.}

**Kobayashi, Teiichi** (*with* Komatsu, Kazushi) Extendibility and stable extendibility of vector bundles over real projective spaces. (English summary) **2001j:55018**
**Komatsu, Kazushi** *see* **Kobayashi, Teiichi, 2001j:55018**

Items with secondary classifications in 55R50

**Ershov, A. V.** On the $K$-theory of fibre bundles for matrix algebras. (Russian) **2001e:19009**
**Landi, Giovanni** Projective modules of finite type over the supersphere $S^{2,2}$. (English summary) **2001m:58006**

## 55R65 Generalizations of fiber spaces and bundles

**Murray, Michael K.** (*with* Stevenson, Daniel) Bundle gerbes: stable isomorphism and local theory. (English summary) **2001j:55019**
**Stevenson, Daniel** *see* **Murray, Michael K., 2001j:55019**

Items with secondary classifications in 55R65

**Carey, Alan L.** (*with* Mickelsson, Jouko; Murray, Michael K.) Bundle gerbes applied to quantum field theory. (English summary) **2001g:53132**
**Chinen, Naotsugu** Manifolds with finite cyclic fundamental groups and codimension 2 fibrators. (English summary) **2001b:57050**
**Daverman, Robert J.** (*with* Im, Young Ho; Kim, Yongkuk) Products of Hopfian manifolds and codimension-2 fibrators. (English summary) **2001b:57049**
**Druschel, K. S.** The cobordism of oriented three dimensional orbifolds. (English summary) **2001k:57040**
**Hughes, C. Bruce** (*with* Taylor, Laurence R.; Williams, Bruce) Controlled homeomorphisms over nonpositively curved manifolds. (English summary) **2001g:57041**
**Im, Young Ho** *see* **Daverman, Robert J. et al., 2001b:57049**
**Khesin, B. A.** *see* **Shapiro, Boris Z., 2001i:37116**
**Kim, Yongkuk** *see* **Daverman, Robert J. et al., 2001b:57049**
**Klein, Matthias** (*with* Rabadán, Raúl) Orientifolds with discrete torsion. (English summary) **2001j:81177**
**Mickelsson, Jouko** *see* **Carey, Alan L. et al., 2001g:53132**
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**Nesterov, A. I.** (*with* Sabinin, Lev V.) Non-associative geometry and discrete structure of spacetime. (English summary) **2001j:20108**
**Rabadán, Raúl** *see* **Klein, Matthias, 2001j:81177**
**Sabinin, Lev V.** *see* **Nesterov, A. I., 2001j:20108**
**Saiers, Nelson** The cobordism classification of projective space bundles. (English summary) **2001h:55018**
**Shapiro, Boris Z.** (*with* Khesin, B. A.) Homotopy classification of nondegenerate quasiperiodic curves on the 2-sphere. (English summary) **2001i:37116**
**Taylor, Laurence R.** *see* **Hughes, C. Bruce et al., 2001g:57041**
**Williams, Bruce** *see* **Hughes, C. Bruce et al., 2001g:57041**

## 55R80 Discriminantal varieties, configuration spaces

**Jiang, Tan** (*with* Yau, Stephen S.-T.; Yeh, Larn-Ying) Simple geometric characterization of supersolvable arrangements. **2001m:55047**
**Kozlowski, Andrzej[2]** (*with* Yamaguchi, Kohhei) Topology of complements of discriminants and resultants. (English summary) **2001e:55024**
**Vassiliev, V. A.** Homology of spaces of homogeneous polynomials in $\mathbf{R}^2$ without multiple zeros. (Russian) **2001c:55010**
— Topology of two-connected graphs and homology of spaces of knots. (English summary) **2001b:55030**
**Vershinin, Vladimir V.** Generalizations of braids from a homological point of view [translation of *Algebra, geometry, analysis and mathematical physics (Russian) (Novosibirsk, 1996)*, 40–62, 189, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1997; MR 2000j:55029]. (English summary)
**Xicoténcatl, Miguel A.** On orbit configuration spaces and the rational cohomology of $F(\mathbb{R}P^n, k)$. (English summary) **2001j:55020**
**Yamaguchi, Kohhei** Complements of resultants and homotopy types. **2001b:55031**
— *see also* **Kozlowski, Andrzej[2], 2001e:55024**
**Yau, Stephen S.-T.** *see* **Jiang, Tan et al., 2001m:55047**
**Yeh, Larn-Ying** *see* **Jiang, Tan et al., 2001m:55047**

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**Baines, Clare** The multiplicity of the Lyashko-Looijenga mapping on the discriminant strata of even and odd polynomials. **2001a:57042**
**Bini, Gilberto** Admissible graphs and configuration spaces. (*see* **2001k:53178**)
**Cohen, Daniel C.** On the cohomology of discriminantal arrangements and Orlik-Solomon algebras. (English summary) **2001m:32059**
— (*with* Orlik, Peter) Arrangements and local systems. (English summary) **2001i:57040**
**Denham, G.** Hanlon and Stanley's conjecture and the Milnor fibre of a braid arrangement. (English summary) **2001i:52036**
**Ekholm, Tobias** Self-intersection surfaces, regular homotopy, and finite order invariants. (English summary) **2001b:57069**
**(Falk, Michael J.)** *see* **Arrangements—Tokyo 1998, 2001f:55001**
**Félix, Yves** (*with* Thomas, Jean-Claude) Rational Betti numbers of configuration spaces. (English summary) **2001g:57054**
**Gaiffi, Giovanni** Compactifications of configuration spaces. (*see* **2001k:53178**)
**Hironaka, Eriko** Boundary manifolds of line arrangements. (English summary) **2001m:32061**
**Kapovich, Michael** (*with* Millson, John J.) Quantization of bending deformations of polygons in $E^3$, hypergeometric integrals and the Gassner representation. (English summary) **2001m:53159**
**Kobayashi, Tsuyoshi** (*with* Saeki, Osamu) The Rubinstein-Scharlemann graphic of a 3-manifold as the discriminant set of a stable map. (English summary) **2001i:57026**
**Kohno, Toshitake** Vassiliev invariants of braids and iterated integrals. **2001k:57013**
**Lando, Sergei** *see* **Zvonkine, Dimitri, 2001k:58086**
**Millson, John J.** *see* **Kapovich, Michael, 2001m:53159**
**Orlik, Peter** *see* **Arrangements—Tokyo 1998, 2001f:55001** *and* **Cohen, Daniel C., 2001i:57040**
**Paris, Luis** On the fundamental group of the complement of a complex hyperplane arrangement. **2001k:32050**
**Rourke, Colin** (*with* Sanderson, Brian) Equivariant configuration spaces. (English summary) **2001h:55014**
**Saeki, Osamu** *see* **Kobayashi, Tsuyoshi, 2001i:57026**
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**Shirokova, Nadya** The space of 3-manifolds. (English and French summaries) **2001g:57026**
**(Terao, Hiroaki)** *see* **Arrangements—Tokyo 1998, 2001f:55001**
**Thomas, Jean-Claude** *see* **Félix, Yves, 2001g:57054**
**Zvonkine, Dimitri** (*with* Lando, Sergei) On multiplicities of the Lyashko-Looijenga mapping on strata of the discriminant. (Russian. Russian summary) **2001k:58086**

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## 55R91 Equivariant fiber spaces and bundles [see also 19L47]

Items with secondary classifications in 55R91

**Chen, Ming-Li** The Postnikov tower and the Steenrod problem. (English summary) **2001k:55041**

## 55R99 None of the above, but in this section

**Fel'dman, K. È.** A new proof of the Frobenius conjecture on the dimensions of real algebras without zero divisors. (Russian) **2001d:55010**

Items with secondary classifications in 55R99

**Bechtluft-Sachs, Stefan** (*with* Hien, Marco) The global defect index. (English summary) **2001a:82079**
**Hien, Marco** *see* **Bechtluft-Sachs, Stefan, 2001a:82079**
**Sadoc, Jean-François** Toroidal DNA: topology, geometry and electrostatics. (English summary) **2001b:92016**

# 55Sxx Operations and obstructions

## 55S05 Primary cohomology operations

**González-Díaz, Rocío** (*with* Real, Pedro) Computing cocycles on simplicial complexes. (English summary) **2001a:55014**
**Ottosen, Iver** Higher cyclic reduced powers. (English summary) **2001g:55013**
**Real, Pedro** *see* **González-Díaz, Rocío, 2001a:55014**

Items with secondary classifications in 55S05

**Álvarez Solano, Víctor** *see* **Hurado, P. R. et al., 2001c:55001**
**Armario, J. A.** *see* **Hurado, P. R. et al., 2001c:55001**
**González-Díaz, Rocío** *see* **Hurado, P. R. et al., 2001c:55001**
**Hurado, P. R.** (*with* Álvarez Solano, Víctor; Armario, J. A.; González-Díaz, Rocío) Algorithms in algebraic topology and homological algebra: the problem of the complexity. (English and Russian summaries) **2001c:55001**
**Karaca, Ilkay Yaslan** *see* **Karaca, Ismet, 2001k:55036**
**Karaca, Ismet** (*with* Karaca, Ilkay Yaslan) On conjugation in the mod-$p$ Steenrod algebra. (English summary) **2001k:55036**
**Nishimura, Osamu** On the Hopf algebra structure of the mod 3 cohomology of the exceptional Lie group of type $E_6$. **2001j:55016**
— The Hopf algebra structure of the cohomology of the 3-connective fibre space over the special unitary group. **2001j:55017**

## 55S10 Steenrod algebra

**Arnon, Dan** Generalized Dickson invariants. (English summary) **2001i:55020**
**Ciampella, A.** Modular invariant theory and the iterated total power operation. (Italian summary) **2001g:55014**
**Crossley, M. D.** The Steenrod algebra and other copolynomial Hopf algebras. (English summary) **2001g:55015**
**Karaca, Ilkay Yaslan** *see* **Karaca, Ismet, 2001k:55036**
**Karaca, Ismet** (*with* Karaca, Ilkay Yaslan) On conjugation in the mod-$p$ Steenrod algebra. (English summary) **2001k:55036**
**Meyer, Dagmar M.** Stripping and conjugation in the mod $p$ Steenrod algebra and its dual. (English summary) **2001e:55025**
— (*with* Silverman, Judith H.) Corrigendum to: "Hit polynomials and conjugation in the dual Steenrod algebra" [Math. Proc. Cambridge Philos. Soc. **123** (1998), no. 3, 531–547; MR 99k:55020] by Silverman. (English summary) **2001a:55015**
**Nguyên Hu'u Viêt Hu'ng** (*with* Trân Ngoc Nam) $\mathcal{A}$-decomposability of the Dickson algebra. **2001k:55037**
**Pengelley, David J.** (*with* Peterson, Franklin P.; Williams, Frank) A global structure theorem for the mod 2 Dickson algebras, and unstable cyclic modules over the Steenrod and Kudo-Araki-May algebras. (English summary) **2001g:55016**
**Peterson, Franklin P.** *see* **Pengelley, David J. et al., 2001g:55016**
**Popelenskiĭ, F. Yu.** Relations in the homology of associative algebras. (Russian. English and Russian summaries) **2001k:55038**
**Schwartz, Lionel** Unstable modules over the Steenrod algebra, functors, and the cohomology of spaces. (English summary) **2001k:55039**
**Silverman, Judith H.** *see* **Meyer, Dagmar M., 2001a:55015**
**Takeuchi, Mitsuhiro** Introduction to Kuhn's theory—algebraic topology and representation theory.
**Tan, K. F.** (*with* Xu, Kai) Dickson invariants hit by the Steenrod square. (English summary) **2001g:55017**
**Trân Ngoc Nam** *see* **Nguyên Hu'u Viêt Hu'ng, 2001k:55037**
**Wang, Xiang Jun[1]** $\mathrm{Ext}^{*,*}_{\mathcal{A}(2)}(A(1), \mathbf{Z}/3)$. (English summary) **2001a:55016**
**Williams, Frank** *see* **Pengelley, David J. et al., 2001g:55016**
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**Kuhn, Nicholas J.** The generic representation theory of finite fields: a survey of basic structure. (English summary) **2001m:20065**
**Mahowald, Mark** (*with* Rezk, Charles) Brown-Comenetz duality and the Adams spectral sequence. (English summary) **2001a:55008**
**Neusel, Mara D.** Integral extensions of unstable algebras over the Steenrod algebra. (English summary) **2001a:13009**
— Localizations over the Steenrod algebra. The lost chapter. (English summary) **2001m:16033**
**Ottosen, Iver** Higher cyclic reduced powers. (English summary) **2001g:55013**
**Rezk, Charles** *see* **Mahowald, Mark, 2001a:55008**
**Segal, Joel** Polynomial invariant rings isomorphic as modules over the Steenrod algebra. (English summary) **2001j:13008**
**Smith, Larry** Lannes $T$-functor and invariants of pointwise stabilizers. (English summary) **2001e:13009**

## 55S12 Dyer-Lashof operations

**Campbell, H. E. A.** (*with* Kechagias, N. E.) Arnon completion of the Dyer-Lashof algebra. (English summary) **2001c:55011**
**Kechagias, N. E.** *see* **Campbell, H. E. A., 2001c:55011**

Items with secondary classifications in 55S12

**Song, Yongjin** The braidings of mapping class groups and loop spaces. (English summary) **2001f:18019**

## 55S15 Symmetric products, cyclic products

Items with secondary classifications in 55S15

**Yamaguchi, Kohhei** Actions on spaces of polynomials. **2001b:55021**

## 55S20 Secondary and higher cohomology operations

**Hemmi, Yutaka** (*with* Lin, James P.) Odd generators of the mod 3 cohomology of finite $H$-spaces. (English summary) **2001d:55011**
**Lin, James P.** *see* **Hemmi, Yutaka, 2001d:55011**

Items with secondary classifications in 55S20

**Choi, Younggi** On the Bockstein lemma. (English summary) **2001e:55022**
**Singh, Neeta** A nontrivial quaternary characteristic class. (English summary) **2001m:57051**
— An infinite family in the stable cohomotopy of certain Thom spaces. (English summary)

## 55S25 $K$-theory operations and generalized cohomology operations [see also 19D55, 19Lxx]

**Butowiez, Jean-Yves** (*with* Turner, Paul) Unstable multiplicative cohomology operations. (English summary) **2001j:55021**
**Turner, Paul** *see* **Butowiez, Jean-Yves, 2001j:55021**

Items with secondary classifications in 55S25

**Dehon, François-Xavier** (*with* Lannes, Jean) Sur les espaces fonctionnels dont la source est le classifiant d'un groupe de Lie compact commutatif. (English and French summaries) [Functional spaces whose source is the classifying space of a commutative compact Lie group] **2001m:55038**
**Johnson, Keith Peter** On the structure of the Hopf algebroid $E(n)_*E(n)$. (English summary) **2001e:55008**
**Lannes, Jean** *see* **Dehon, François-Xavier, 2001m:55038**
**Ottosen, Iver** Higher cyclic reduced powers. (English summary) **2001g:55013**
**Patras, Frédéric** Adams operations, algebras up to homotopy and cyclic homology. (English summary) **2001i:19004**

## 55S30 Massey products

**Artel'nikh, I. V.** Massey products and the Bukhshtaber spectral sequence. (Russian)

Items with secondary classifications in 55S30

**Dotti Miatello, Isabel G.** (*with* Fino, Anna) Abelian hypercomplex 8-dimensional nilmanifolds. (English summary) **2001g:53089**
**Fino, Anna** *see* **Dotti Miatello, Isabel G., 2001g:53089**
**Krushkal, Vyacheslav S.** Embedding obstructions and 4-dimensional thickenings of 2-complexes. (English summary) **2001b:57006**
**Laurence, Peter** (*with* Stredulinsky, Edward W.) Asymptotic Massey products, induced currents and Borromean torus links. (English summary) **2001i:57010**
**Rudyak, Yu. B.** (*with* Tralle, A. E.) On Thom spaces, Massey products, and nonformal symplectic manifolds. **2001h:53128**
**Stredulinsky, Edward W.** *see* **Laurence, Peter, 2001i:57010**
**Tralle, A. E.** *see* **Rudyak, Yu. B., 2001h:53128**

## 55S35 Obstruction theory

**Bohr, Christian** On the relation between lifting obstructions and ordinary obstructions. (English summary) **2001b:55032**

Items with secondary classifications in 55S35

**Arkowitz, Martin** (*with* Lupton, Gregory) Rational obstruction theory and rational homotopy sets. (English summary) **2001h:55012**
**Geiges, Hansjörg** *see* **Müller, Stefan[1], 2001g:57049**
**Izydorek, Marek** (*with* Marzantowicz, Wacław) The Borsuk-Ulam property for cyclic groups. (English summary) **2001k:55006**
**Lupton, Gregory** *see* **Arkowitz, Martin, 2001h:55012**
**Marzantowicz, Wacław** *see* **Izydorek, Marek, 2001k:55006**
**Müller, Stefan[1]** (*with* Geiges, Hansjörg) Almost complex structures on 8-manifolds. **2001g:57049**

## 55S37 Classification of mappings

**Iriye, K.** Universal phantom maps out of loop spaces. (English summary) **2001b:55033**
**Lê Minh Hà** (*with* Strom, Jeffrey) The Gray filtration on phantom maps. (English summary) **2001k:55040**
**Strom, Jeffrey** *see* **Lê Minh Hà, 2001k:55040**

## 55S40 Sectioning fiber spaces and bundles

Items with secondary classifications in 55S40

**Bohr, Christian** On the relation between lifting obstructions and ordinary obstructions. (English summary) **2001b:55032**
**Neumann, Frank[1]** A theorem of Tits, normalizers of maximal tori and fibrewise Bousfield-Kan completions. (English summary) **2001j:22011**
**Yang, Xiao Song** A remark on global Poincaré section and suspension manifold. (English summary) **2001b:37028**

## 55S45 Postnikov systems, $k$-invariants

**Chen, Ming-Li** The Postnikov tower and the Steenrod problem. (English summary) **2001k:55041**

Items with secondary classifications in 55S45

**Arlettaz, Dominique** Algebraic $K$-theory of rings from a topological viewpoint. (English summary) **2001i:19002**
**Booth, Peter I.** Fibrations with product of Eilenberg-MacLane space fibres. I. (English summary) **2001m:55042**
**Golasiński, Marek** (*with* Gonçalves, Daciberg Lima) Postnikov towers and Gottlieb groups of orbit spaces. (English summary) **2001m:55039**
**Gonçalves, Daciberg Lima** *see* **Golasiński, Marek, 2001m:55039**
**Hemmi, Yutaka** (*with* Lin, James P.) Odd generators of the mod 3 cohomology of finite $H$-spaces. (English summary) **2001d:55011**
**Kahn, Donald** (*with* Schwartz, Christopher) The structure of the Hurewicz homomorphism. **2001k:55034**
**Klaus, Stephan** On simplicial loops and $H$-spaces. (English summary) **2001k:55027**
**Lin, James P.** *see* **Hemmi, Yutaka, 2001d:55011**
**Schwartz, Christopher** *see* **Kahn, Donald, 2001k:55034**

## 55S91 Equivariant operations and obstructions [see also 19L47]

Items with secondary classifications in 55S91

**Chen, Ming-Li** The Postnikov tower and the Steenrod problem. (English summary) **2001k:55041**

## 55S99 None of the above, but in this section

Items with secondary classifications in 55S99

**Fel'dman, K. È.** A new proof of the Frobenius conjecture on the dimensions of real algebras without zero divisors. (Russian) **2001d:55010**

# 55Txx Spectral sequences [see also 18G40, 55R20]

## 55T05 General

Items with secondary classifications in 55T05

**Hu, Po** Transfinite spectral sequences. **2001a:18010**
**Vassiliev, V. A.** Topology of two-connected graphs and homology of spaces of knots. (English summary) **2001b:55030**

## 55T10 Serre spectral sequences

Items with secondary classifications in 55T10

**Furukawa, Yasukuni** On the cohomology maps mod $p$ induced by the inclusion maps of Lie groups. (English summary) **2001j:57051**
**Itskov, Vladimir** (*with* Karasev, Mikhail V.; Vorob'ev, Yu. M.) Infinitesimal Poisson cohomology. (English summary) **2001k:58031**
**Karasev, Mikhail V.** *see* **Itskov, Vladimir et al., 2001k:58031**
**Vorob'ev, Yu. M.** *see* **Itskov, Vladimir et al., 2001k:58031**
**Yau, Donald** Cohomology of unitary and symplectic groups. (English summary) **2001f:57039**

## 55T15 Adams spectral sequences

**Bendersky, Martin** (*with* Thompson, Robert D.) The Bousfield-Kan spectral sequence for periodic homology theories. (English summary) **2001i:55021**
**González, Jesús[2]** Asymptotic behavior in stable homotopy. (Spanish. Spanish summary) **2001f:55019**
— A vanishing line in the BP⟨1⟩-Adams spectral sequence. (English summary) **2001j:55022**
**Thompson, Robert D.** *see* **Bendersky, Martin, 2001i:55021**

Items with secondary classifications in 55T15

**Baker, Andrew J.** On the cohomology of some Hopf algebroids and Hattori-Stong theorems. (English summary) **2001h:55007**
**Dehon, François-Xavier** (*with* Lannes, Jean) Sur les espaces fonctionnels dont la source est le classifiant d'un groupe de Lie compact commutatif. (English and French summaries) [Functional spaces whose source is the classifying space of a commutative compact Lie group] **2001m:55038**
**Lannes, Jean** *see* **Dehon, François-Xavier, 2001m:55038**
**Laures, Gerd** On cobordism of manifolds with corners. (English summary) **2001i:55007**
**Mahowald, Mark** (*with* Rezk, Charles) Brown-Comenetz duality and the Adams spectral sequence. (English summary) **2001a:55008**
**Rezk, Charles** *see* **Mahowald, Mark, 2001a:55008**
**Tan, K. F.** (*with* Xu, Kai) Dickson invariants hit by the Steenrod square. (English summary) **2001g:55017**
**Xu, Kai** *see* **Tan, K. F., 2001g:55017**

## 55T25 Generalized cohomology

Items with secondary classifications in 55T25

**Artel'nikh, I. V.** Massey products and the Bukhshtaber spectral sequence. (Russian)
**Baker, Andrew J.** On the cohomology of some Hopf algebroids and Hattori-Stong theorems. (English summary) **2001h:55007**
**Yang, Yeong-mee** On Morava $K$-groups of stunted projective spaces. **2001d:55001**

## 55T99 None of the above, but in this section

Items with secondary classifications in 55T99

**Baues, Hans-Joachim** (*with* Goerss, Paul G.) A homotopy operation spectral sequence for the computation of homotopy groups. **2001a:55006**
**Chataur, David** Un modèle algébrique de la suite spectrale de Leray. (English and French summaries) [An algebraic model of the Leray spectral sequence] **2001m:18011**
**Goerss, Paul G.** *see* **Baues, Hans-Joachim, 2001a:55006**
**Lindenstrauss, Ayelet** A relative spectral sequence for topological Hochschild homology of spectra. (English summary) **2001e:19005**
**Ugarte, Luis** Hodge numbers of a hypothetical complex structure on the six sphere. (English summary) **2001e:53076**

## 55Uxx Applied homological algebra and category theory [see also 18Gxx]

## 55U10 Simplicial sets and complexes

**Frabetti, Alessandra** Simplicial properties of the set of planar binary trees. (English summary) **2001m:55048**
**Goerss, Paul G.** (*with* Jardine, John F.) ★ Simplicial homotopy theory. (English summary) **2001d:55012**
**Jardine, John F.** *see* **Goerss, Paul G., 2001d:55012**
**Mauri, Luca** (*with* Tierney, Myles) Two-descent, two-torsors and local equivalence. (English summary) **2001b:55034**
**Tierney, Myles** *see* **Mauri, Luca, 2001b:55034**
**Wu, Jie[4]** On products on minimal simplicial sets. (English summary) **2001a:55017**
**Zapatrin, Roman R.** Incidence algebras of simplicial complexes. (English summary) **2001m:55049**

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**Progress in Mathematics** *see* **Goerss, Paul G., 2001d:55012**

Items with secondary classifications in 55U10

**Bourn, Dominique** The structural nature of the nerve functor for $n$-groupoids. (English summary) **2001e:18014**
— $n$-groupoids from $n$-truncated simplicial objects as a solution to a universal problem. (English summary) **2001f:18026**
**Gillet, Henri** (*with* Soulé, Christophe) Filtrations on higher algebraic $K$-theory. **2001i:19005**
**Joyal, André** (*with* Tierney, Myles) On the theory of path groupoids. (English summary) **2001j:55012**
**Klaus, Stephan** On the homotopy relation and self equivalences. (English summary) **2001i:55010**
**Soulé, Christophe** *see* **Gillet, Henri, 2001i:19005**
**Tierney, Myles** *see* **Joyal, André, 2001j:55012**
**Turchin, V. È.** Homology isomorphism of the complex of 2-connected graphs and the graph-complex of trees. (English summary) **2001f:57015**
**Villarroel-Flores, Rafael** Homotopy equivalence of simplicial sets with a group action. (English summary) **2001k:55018**

## 55U15 Chain complexes

**Barnes, Donald W.** (*with* Lambe, Larry A.) Correction to: "A fixed point approach to homological perturbation theory" [Proc. Amer. Math. Soc. **112** (1991), no. 3, 881–892; MR 91j:55019]. (English summary)
**Lambe, Larry A.** *see* **Barnes, Donald W.**

Items with secondary classifications in 55U15

**Real, Pedro** Homological perturbation theory and associativity. (English summary) **2001i:18021**
**Sergeraert, Francis** ✠$_K$, objet du 3e type. [✠$_K$, object of the third type] **2001k:55021**

## 55U35 Abstract and axiomatic homotopy theory

**Gaucher, Philippe** Homotopy invariants of higher dimensional categories and concurrency in computer science. (English summary) **2001e:55026**
**Matumoto, Takao** (*with* Ohkawa, Tetsusuke) On epimorphisms and monomorphisms in the homotopy category of CW complexes. **2001g:55018**
**Minian, Elias Gabriel** Generalized cofibration categories and global actions. (English summary) **2001j:55023**
**Ohkawa, Tetsusuke** *see* **Matumoto, Takao, 2001g:55018**
**Schwede, Stefan** $S$-modules and symmetric spectra. **2001m:55050**
**Yi, Jian Xin** Weak-colimits and their properties. (Chinese. English and Chinese summaries)

Items with secondary classifications in 55U35

**Basterra, M.** André-Quillen cohomology of commutative $S$-algebras. (English summary) **2001b:55025**
**Beligiannis, Apostolos** Relative homological algebra and purity in triangulated categories. **2001e:18012**
**Bousfield, A. K.** On the telescopic homotopy theory of spaces. (English summary) **2001k:55030**
**Brinkmeier, Michael** The Milgram non-operad. (English and French summaries) **2001k:55029**
**Dwyer, William G.** (*with* Palmieri, John H.) Ohkawa's theorem: there is a set of Bousfield classes. **2001f:55015**
**Garzón, Antonio R.** (*with* Miranda, Jesús G.; Osorio, Raquel) A simplicial description of the homotopy category of simplicial groupoids. (English summary) **2001f:18027**
**Goerss, Paul G.** (*with* Hopkins, Michael J.) André-Quillen (co)-homology for simplicial algebras over simplicial operads. (English summary) **2001m:18012**
**Hopkins, Michael J.** *see* **Goerss, Paul G., 2001m:18012**
**Isaksen, Daniel C.** A model structure on the category of pro-simplicial sets. (English summary) **2001m:18015**
**Krause, Henning** (*with* Reichenbach, Ulrike) Endofiniteness in stable homotopy theory. (English summary) **2001g:55004**
**Livernet, Muriel** On a plus-construction for algebras over an operad. (English summary) **2001a:19001**
**Majewski, Martin** Rational homotopical models and uniqueness. (English summary) **2001e:55015**
**Mandell, Michael A.** (*with* May, J. P.; Schwede, Stefan; Shipley, Brooke E.) Model categories of diagram spectra. **2001k:55025**
**May, J. P.** *see* **Mandell, Michael A. et al., 2001k:55025**
**McCarthy, Randy** On the computation of stabilized tensor functors and the relative algebraic $K$-theory of dual numbers. (English summary) **2001m:19004**
**Miranda, Jesús G.** *see* **Garzón, Antonio R. et al., 2001f:18027**
**Mutlu, Ali** (*with* Porter, Timothy) Free crossed resolutions from simplicial resolutions with given CW-basis. (French summary) **2001f:18028**
— Join for (augmented) simplicial group. (English summary) **2001e:55017**
**Neeman, Amnon** Loop spaces of the $Q$-construction. (English summary) **2001k:18009**
— ★ Triangulated categories. **2001k:18010**
**Osorio, Raquel** *see* **Garzón, Antonio R. et al., 2001f:18027**
**Palmieri, John H.** *see* **Dwyer, William G., 2001f:55015**
**Patras, Frédéric** Adams operations, algebras up to homotopy and cyclic homology. (English summary) **2001i:19004**
**Porter, Timothy** *see* **Mutlu, Ali, 2001f:18028**
**Reichenbach, Ulrike** *see* **Krause, Henning, 2001g:55004**
**Salbany, Sergio** On Eilenberg-Moore algebras induced by chains. (English summary) **2001a:18002**
**Schwede, Stefan** (*with* Shipley, Brooke E.) Algebras and modules in monoidal model categories. **2001c:18006**
— *see also* **Mandell, Michael A. et al., 2001k:55025**
**Shipley, Brooke E.** *see* **Schwede, Stefan, 2001c:18006** *and* **Mandell, Michael A. et al., 2001k:55025**
**Stepanov, Aleksei Vladimirovich** Some constructions of exact sequences. (English and Russian summaries) **2001k:18011**

Items listed otherwise than by author

**Annals of Mathematics Studies** *see* **Neeman, Amnon, 2001k:18010**

## 55U99 None of the above, but in this section

Items with secondary classifications in 55U99

**Grandis, Marco** Weak subobjects and the epi-monic completion of a category. (English summary) **2001g:18002**
**Heller, Alex** Semistability and infinite loop spaces. (English summary) **2001f:18024**
**Jardine, John F.** Presheaves of symmetric spectra. (English summary) **2001g:55003**
**Makeev, V. V.** (*with* Mukhin, A. S.) On the existence of a common section with given properties for several convex compacta. (Russian. English and Russian summaries) **2001e:52003**
**Mukhin, A. S.** *see* **Makeev, V. V., 2001e:52003**

# 57–XX Manifolds and cell complexes {For complex manifolds, see 32Qxx.}

## 57–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Huggett, Stephen** (*with* Jordan, David M.) ★ A topological aperitif. (English summary) **2001k:57001**
**Jordan, David M.** *see* **Huggett, Stephen, 2001k:57001**
**Lee, John M.** ★ Introduction to topological manifolds. (English summary) **2001d:57001**
**(Penrose, Roger)** *see* **Huggett, Stephen, 2001k:57001**

Items with secondary classifications in 57–01

**Storch, Uwe** (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik. Band 4. (German. German summary) [Textbook of mathematics. Vol. 4] **2001m:00001**
**Wiebe, Hartmut** *see* **Storch, Uwe, 2001m:00001**

## 57–02 Research exposition (monographs, survey articles)

**Jones, V. F. R.** Ten problems. (English summary) **2001a:57001**
**Ziegler, Günter M.** Methoden der kombinatorischen Geometrie "im Einsatz". (German summary) [Methods of combinatorial geometry "in application"]

Items with secondary classifications in 57–02

**(Atiyah, Michael)** *see* **Donaldson, S. K., 2001j:01045**
**Donaldson, S. K.** Geometry in Oxford c. 1980–85. **2001j:01045**
**Quinn, Frank** Problems in 4-dimensional topology. (*see* **2001i:57001**)
**(Sosinskiĭ, A. B.)** *see* **Vassiliev, V. A., 2001j:55001**
**Vassiliev, V. A.** ★ Introduction to topology. (English summary) **2001j:55001**
**Yau, Shing-Tung** Open problems in geometry. **2001c:53001**

## 57–03 Historical (must also be assigned at least one classification number from Section 01)

**Bar-Natan, Dror** From astrology to topology via Feynman diagrams and Lie algebras. (*see* **2001b:00026**)
**James, I. M.** From combinatorial topology to algebraic topology. **2001a:57002**
**(Kronecker, L.)** *see* **Samelson, Hans, 2001c:57004**
**Kuiper, N. H.** A short history of triangulation and related matters. **2001c:57001**
**Milnor, John W.** Classification of $(n-1)$-connected $2n$-dimensional manifolds and the discovery of exotic spheres. **2001c:57002**
**Novikov, Sergei Petrovich** Surgery in the 1960s. **2001c:57003**
**Samelson, Hans** Kronecker and topology. **2001c:57004**

Items with secondary classifications in 57–03

**Arya, Shashi Prabha** Trends in topology. **2001m:01034**
**Berger, Marcel** Rencontres avec un géomètre. [Meetings with a geometer] **2001d:53002a**
— Rencontres avec un géomètre. II. [Meetings with a geometer. II] **2001d:53002b**
— Encounter with a geometer. I. (English summary) **2001d:53002c**
— Encounter with a geometer. II. (English summary) **2001d:53002d**
**(Dehn, Max)** *see* **Stillwell, John, 2001b:01026**
**Diacu, Florin** A century-long loop. **2001g:01028**
**(Gromov, Mikhael L.)** *see* **Berger, Marcel, 2001d:53002a; 2001d:53002b; 2001d:53002c** *and* **2001d:53002d**
**Hawkins, Thomas** Weyl and the topology of continuous groups. **2001j:22001**
**Stillwell, John** Max Dehn. **2001b:01026**
**Tóth, Gábor[1]** Minimal immersions of spheres and moduli. **2001k:53125**
**(Weyl, Hermann)** *see* **Hawkins, Thomas, 2001j:22001**
**Wilson, Robin J.** Graph theory. **2001a:05001**
**Zisman, M.** Fibre bundles, fibre maps. **2001b:55001**

Items listed otherwise than by author

**Biography:**
**Dehn, Max** *see* **Stillwell, John, 2001b:01026**

## 57–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57–04

**Björner, Anders** (*with* Lutz, Frank H.) Simplicial manifolds, bistellar flips and a 16-vertex triangulation of the Poincaré homology 3-sphere. (English summary) **2001h:57026**
**Lutz, Frank H.** *see* **Björner, Anders, 2001h:57026**
**Nencka, Hanna** Some methods to identify knots. (English summary) **2001d:57012**
**Rees, Sarah** (*with* Soicher, Leonard H.) An algorithmic approach to fundamental groups and covers of combinatorial cell complexes. (English summary) **2001h:57004**
**Soicher, Leonard H.** *see* **Rees, Sarah, 2001h:57004**

## 57–06 Proceedings, conferences, collections, etc.

**(Ancel, Fredric D.)** *see* **Geometric topology and geometric group theory, 2001h:57001**
**(Cappell, Sylvain)** *see* **Surveys on surgery theory, 2001i:57001**
**(Firmo, S.)** *see* **Meeting: Topology, 2001m:57001**
**(Gonçalves, Daciberg Lima)** *see* **Meeting: Topology, 2001m:57001**
**(Gordon, Cameron McA.)** *see* **Knots in Hellas '98, 2001j:57001**
**(Guilbault, Craig R.)** *see* **Geometric topology and geometric group theory, 2001h:57001**
**(Jones, V. F. R.)** *see* **Knots in Hellas '98, 2001j:57001**
**(Kauffman, Louis H.)** *see* **Knots in Hellas '98, 2001j:57001**
**(Lambropoulou, S.)** *see* **Knots in Hellas '98, 2001j:57001**
**(Przytycki, Józef H.)** *see* **Knots in Hellas '98, 2001j:57001**
**(Ranicki, Andrew)** *see* **Surveys on surgery theory, 2001i:57001**
**(Rosenberg, Jonathan)** *see* **Surveys on surgery theory, 2001i:57001**
**(Saeki, Osamu)** *see* **Meeting: Topology, 2001m:57001**
**(Wall, C. T. C.)** *see* **Surveys on surgery theory, 2001i:57001**

Items listed otherwise than by author

**Annals of Mathematics Studies** ★ Surveys on surgery theory. Vol. 2. **2001i:57001**
**Birthday:**
**Wall, Charles T. C.** ★ Surveys on surgery theory. Vol. 2. **2001i:57001**
**Conference:**
**Knot Theory and its Ramifications** ★ Knots in Hellas '98. Vol. 2. **2001j:57001**
— ★ Knots in the Hellas '98. Vol. 3.
**Delphi** ★ Knots in Hellas '98. Vol. 2. **2001j:57001**
— ★ Knots in the Hellas '98. Vol. 3.
**Geometric topology and geometric group theory** ★ Geometric topology and geometric group theory. **2001h:57001**
**Hyperbolic spaces and related topics** ★ Sōkyoku kūkan to sono kanren bunya. II. (Japanese) [Hyperbolic spaces and related topics. II] **2001f:57001**
**Knots in Hellas '98** ★ Knots in Hellas '98. Vol. 2. **2001j:57001**
— ★ Knots in the Hellas '98. Vol. 3.
**Meeting:**
**American Mathematical Society** ★ Geometric topology and geometric group theory. **2001h:57001**
**Topology** ★ XI Brazilian Topology Meeting. **2001m:57001**
**Milwaukee, WI** ★ Geometric topology and geometric group theory. **2001h:57001**
**Recent progress towards the volume conjecture** ★ Volume conjecture no genjō. [Recent progress towards the volume conjecture] **2001h:57002**
**Rio Claro** ★ XI Brazilian Topology Meeting. **2001m:57001**
**Surveys on surgery theory** ★ Surveys on surgery theory. Vol. 2. **2001i:57001**
**Symposium:**
**Hyperbolic Spaces and Related Topics** ★ Sōkyoku kūkan to sono kanren bunya. II. (Japanese) [Hyperbolic spaces and related topics. II] **2001f:57001**

Items with secondary classifications in 57–06

**(Abels, Herbert)** *see* **Crystallographic groups and their generalizations, 2001e:00018**
**(Arnol'd, V. I.)** *see* **Topics in singularity theory, 2001a:00040**
**(Félix, Yves)** *see* **Crystallographic groups and their generalizations, 2001e:00018**
**(Grove, Karsten)** *see* **Geometry and topology: Aarhus, 2001c:00019**
**(Grunewald, Fritz)** *see* **Crystallographic groups and their generalizations, 2001e:00018**
**(Igodt, Paul)** *see* **Crystallographic groups and their generalizations, 2001e:00018**
**(Ivanšić, Ivan)** *see* **Geometric topology, 2001k:00024**
**(Keesling, James E.)** *see* **Geometric topology, 2001k:00024**
**(Khovanskiĭ, Askol'd G.)** *see* **Topics in singularity theory, 2001a:00040**
**(Lyubich, Mikhail)** *see* **Laminations and foliations in dynamics, geometry and topology, 2001h:00027**
**(Madsen, Ib Henning)** *see* **Geometry and topology: Aarhus, 2001c:00019**
**(Mardešić, Sibe)** *see* **Geometric topology, 2001k:00024**
**(Milnor, John W.)** *see* **Laminations and foliations in dynamics, geometry and topology, 2001h:00027**
**(Minsky, Yair N.)** *see* **Laminations and foliations in dynamics, geometry and topology, 2001h:00027**
**(Netsvetaev, N. Yu.)** *see* **Topology and dynamics, in memory of V. A. Rokhlin, 2001h:00033**
**(Pedersen, Erik Kjær)** *see* **Geometry and topology: Aarhus, 2001c:00019**
**(Quillen, Daniel)** *see* **Special Issue: Quillen, Daniel G.**
**(Rokhlin, Vladimir Abramovich)** *see* **Topology and dynamics, in memory of V. A. Rokhlin, 2001h:00033** *and* **Topology, ergodic theory, real algebraic geometry, 2001j:00036**
**(Sher, Richard B.)** *see* **Geometric topology, 2001k:00024**
**(Sosinskiĭ, A. B.)** *see* **Topics in singularity theory, 2001a:00040**
**(Turaev, Vladimir)** *see* **Topology, ergodic theory, real algebraic geometry, 2001j:00036**
**(Varchenko, A. N.)** *see* **Topics in singularity theory, 2001a:00040**
**(Vassiliev, V. A.)** *see* **Topics in singularity theory, 2001a:00040**
**(Vershik, A. M.)** *see* **Topology, ergodic theory, real algebraic geometry, 2001j:00036**
**(Viro, O. Ya.)** *see* **Topology and dynamics, in memory of V. A. Rokhlin, 2001h:00033**

Items listed otherwise than by author

**Aarhus** ★ Geometry and topology: Aarhus. **2001c:00019**
**American Mathematical Society Translations, Series 2** ★ Topics in singularity theory. **2001a:00040**
— ★ Topology, ergodic theory, real algebraic geometry. **2001j:00036**
**Birthday:**
**Arnol'd, Vladimir Igorevich** ★ Topics in singularity theory. **2001a:00040**
**Conference:**
**Geometry and Topology** ★ Geometry and topology: Aarhus. **2001c:00019**
**Contemporary Mathematics** ★ Geometry and topology: Aarhus. **2001c:00019**
— ★ Crystallographic groups and their generalizations. **2001e:00018**
— ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
**Crystallographic groups and their generalizations** ★ Crystallographic groups and their generalizations. **2001e:00018**
**Dubrovnik** ★ Geometric topology: Dubrovnik 1998. **2001k:00024**
**Festschrift:**
**Arnol'd, Vladimir Igorevich** ★ Topics in singularity theory. **2001a:00040**
**Mardešić, Sibe** ★ Geometric topology: Dubrovnik 1998. **2001k:00024**
**Quillen, Daniel G.** ★ Special issues dedicated to Daniel Quillen on the occasion of his sixtieth birthday. Part V.
**Geometric topology** ★ Geometric topology: Dubrovnik 1998. **2001k:00024**
**Geometry and topology manifolds** ★ {Geometry and topology manifolds}. **2001i:00034**
**Geometry and topology: Aarhus** ★ Geometry and topology: Aarhus. **2001c:00019**
**Kortrijk** ★ Crystallographic groups and their generalizations. **2001e:00018**
**Krynica** ★ {Geometry and topology manifolds}. **2001i:00034**

**Laminations and foliations in dynamics, geometry and topology** ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
**Memorial Issue:**
**Rokhlin, Vladimir Abramovich** ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
**Memorial Volume:**
**Rokhlin, Vladimir Abramovich** ★ Topology, ergodic theory, real algebraic geometry. **2001j:00036**
**Research in general and geometric topology** ★ Kūkan ron oyobi kikagakuteki toporojii no kenkyū. [Research in general and geometric topology] **2001a:54001**
**Research of set-theoretic and geometric topology and their applications** ★ Shūgō ron teki kikagaku teki toporojī to sono ōyō no kenkyū. (Japanese) [Research of set-theoretic and geometric topology and their applications] **2001m:54001**
**Special Issue:**
**Quillen, Daniel G.** ★ Special issues dedicated to Daniel Quillen on the occasion of his sixtieth birthday. Part V.
**St. Petersburg** ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
**Stony Brook, NY** ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
**Symposium:**
**Research in General and Geometric Topology** ★ Kūkan ron oyobi kikagakuteki toporojii no kenkyū. [Research in general and geometric topology] **2001a:54001**
**Unsolved Problems in General and Geometric Topology and Progress on Them** ★ Ippan kikagakuteki isō ni okeru mikaiketsu mondai to sono tenkai. [Unsolved problems in general and geometric topology and progress on them] **2001a:54002**
**Topics in singularity theory** ★ Topics in singularity theory. **2001a:00040**
**Topology and dynamics, in memory of V. A. Rokhlin** ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
**Topology, ergodic theory, real algebraic geometry** ★ Topology, ergodic theory, real algebraic geometry. **2001j:00036**
**Unsolved problems in general and geometric topology and progress on them** ★ Ippan kikagakuteki isō ni okeru mikaiketsu mondai to sono tenkai. [Unsolved problems in general and geometric topology and progress on them] **2001a:54002**
**Workshop:**
**Crystallographic Groups and their Generalizations** ★ Crystallographic groups and their generalizations. **2001e:00018**

## 57Mxx Low-dimensional topology

### 57M05 Fundamental group, presentations, free differential calculus

**Adhikari, M. R.** (*with* Das, Pratyayananda) Lattices associated with covering spaces. (English summary) **2001a:57003**
**Aguadé, Jaume** Even more extraordinary adventures of the smallest group of all. (Catalan)
**Biss, Daniel K.** A generalized approach to the fundamental group. **2001i:57002**
**Das, Pratyayananda** *see* **Adhikari, M. R., 2001a:57003**
**Hog-Angeloni, Cynthia** Detecting 3-manifold presentations. (English summary) **2001g:57001**
**Johnson, F. E. A.** Stable modules and the structure of Poincaré 3-complexes. (English summary) **2001e:57001**
**Kuz'min, Yu. V.** On solvable groups of knotted surfaces. **2001i:57003**
**Liskovets, V. A.** (*with* Mednykh, Aleksandr D.) The number of subgroups in the fundamental groups of some non-orientable 3-manifolds. (English and Russian summaries) **2001i:57004**
— (*with* Mednykh, Aleksandr D.) Enumeration of subgroups in the fundamental groups of orientable circle bundles over surfaces. (English summary) **2001h:57003**
**Livingston, Charles** Maps of surface groups to finite groups with no simple loops in the kernel. (English summary) **2001m:57002**
**Mednykh, Aleksandr D.** *see* **Liskovets, V. A., 2001h:57003** *and* **2001i:57004**
**Rees, Sarah** (*with* Soicher, Leonard H.) An algorithmic approach to fundamental groups and covers of combinatorial cell complexes. (English summary) **2001h:57004**
**Shalen, Peter B.** Three-manifolds and Baumslag-Solitar groups. (English summary) **2001j:57002**
**Soicher, Leonard H.** *see* **Rees, Sarah, 2001h:57004**
**Szczepański, Andrzej** (*with* Vesnin, A. Yu.) Generalized Neuwirth groups and Seifert fibered manifolds. (English summary) **2001k:57002**
**Tanasi, Corrado** Groups simply connected at infinity. (Italian. English summary) **2001g:57002**
**Vesnin, A. Yu.** *see* **Szczepański, Andrzej, 2001k:57002**

Items with secondary classifications in 57M05

**Bogley, W. A.** (*with* Gilbert, N. D.; Howie, James) Cockcroft properties of Thompson's group. (English summary) **2001g:20031**
**Cannon, J. W.** (*with* Conner, Gregory R.) The combinatorial structure of the Hawaiian earring group. (English summary) **2001g:20020**
**Collin, Olivier** Floer homology for knots and SU(2)-representations for knot complements and cyclic branched covers. (English summary) **2001e:57004**
**Conner, Gregory R.** *see* **Cannon, J. W., 2001g:20020**
**Corran, Ruth** A normal form for a class of monoids including the singular braid monoids. (English summary) **2001f:20123**
**Eda, Katsuya** The fundamental groups of certain one-dimensional spaces. (English summary) **2001g:55008**
**Feit, Paul** A fundamental group for symbolic dynamics. I. Definitions. (English summary) **2001c:18008**
**Gilbert, N. D.** *see* **Bogley, W. A. et al., 2001g:20031**
**Habiro, Kazuo** Claspers and finite type invariants of links. (English summary) **2001g:57020**
**Häring-Oldenburg, Reinhard** Braid lift representations of Artin's braid group. (English summary) **2001k:20077**
**He, Bai-he** A theorem on combinatorial group theory. (English summary) **2001j:20032**
**Hitchman, Michael P.** An identity property for 2-complex pairs. (English summary) **2001e:57003**
**Howie, James** *see* **Bogley, W. A. et al., 2001g:20031**
**Ivanov, Sergei Vladimir** (*with* Margolis, Stuart W.; Meakin, J. C.) On one-relator inverse monoids and one-relator groups. (English summary) **2001m:20107**
— (*with* Meakin, J. C.) On asphericity and the Freiheitssatz for certain finitely presented groups. (English summary) **2001m:20046**
**Kamishima, Yoshinobu** (*with* Udono, Tetsuro) On the fundamental groups of compact complete quaternionic affinely flat 2-manifolds. (English summary) **2001j:57049**
**Kim, Ann Chi** (*with* Kim, Yangkok; Vesnin, A. Yu.) On a class of cyclically presented groups. (English summary) **2001f:20074**
**Kim, Yangkok** *see* **Kim, Ann Chi et al., 2001f:20074**
**Kulikov, Vik. S.** Alexander polynomials of plane algebraic curves. II. (Russian) **2001f:14036**
**Lackenby, Marc** Word hyperbolic Dehn surgery. **2001m:57003**
**Margolis, Stuart W.** *see* **Ivanov, Sergei Vladimir et al., 2001m:20107**
**Masters, Joseph D.** Virtual homology of surgered torus bundles. (English summary) **2001g:57037**
**Meakin, J. C.** *see* **Ivanov, Sergei Vladimir et al., 2001m:20046** *and* **2001m:20107**
**Niblo, Graham A.** (*with* Wise, Daniel T.) Subgroup separability, knot groups and graph manifolds. (English summary) **2001f:20075**
**Scannell, Kevin P.** Infinitesimal deformations of some SO(3, 1) lattices. (English summary) **2001c:57018**
**Swarup, Gadde A.** Proof of a weak hyperbolization theorem. (English summary) **2001k:57022**
**Udono, Tetsuro** *see* **Kamishima, Yoshinobu, 2001j:57049**
**Vesnin, A. Yu.** *see* **Kim, Ann Chi et al., 2001f:20074**
**Wajnryb, Bronisław** An elementary approach to the mapping class group of a surface. (English summary) **2001a:20059**
**Wise, Daniel T.** *see* **Niblo, Graham A., 2001f:20075**

### 57M07 Topological methods in group theory

**Bogley, W. A.** (*with* Sieradski, A. J.) Weighted combinatorial group theory and wild metric complexes. (English summary) **2001c:57005**
**Brinkmann, Peter** Perimeter and coherence according to McCammond and Wise. (English summary) **2001d:57002**
**Brown, Kenneth S.** (*with* Meier, John) Improper actions and higher connectivity at infinity. (English summary) **2001h:57005**
**Chepoi, V. D.** Graphs of some CAT(0) complexes. (English summary) **2001a:57004**
**Davis, Michael Walter** Poincaré duality groups. **2001b:57001**
**Farley, Daniel S.** On the isometry groups of certain CAT(0) spaces and trees. (English summary) **2001j:57003**
**Lackenby, Marc** Word hyperbolic Dehn surgery. **2001m:57003**
**Lasheras, Francisco F.** Universal covers and 3-manifolds. (English summary) **2001j:57004**
**Levitt, Gilbert** (*with* Vogtmann, Karen) A Whitehead algorithm for surface groups. (English summary) **2001g:57003**
**Matsumoto, Makoto** A presentation of mapping class groups in terms of Artin groups and geometric monodromy of singularities. (English summary) **2001e:57002**
**Meier, John** *see* **Brown, Kenneth S., 2001h:57005**
**Paris, Luis** Construction de représentations irréductibles à partir de complexes de groupes. (English and French summaries) [Constructing irreducible representations from complexes of groups] **2001f:57002**
**Rourke, Colin** (*with* Wiest, Bert) Order automatic mapping class groups. (English summary) **2001f:57003**
**Sieradski, A. J.** *see* **Bogley, W. A., 2001c:57005**
**Taherkhani, Feraydoun** The Kazhdan property of the mapping class group of closed surfaces and the first cohomology group of its cofinite subgroups. (English summary) **2001i:57005**
**Vogtmann, Karen** *see* **Levitt, Gilbert, 2001g:57003**
**Wiest, Bert** *see* **Rourke, Colin, 2001f:57003**

Items with secondary classifications in 57M07

**Akita, Toshiyuki** Euler characteristics of Coxeter groups, PL-triangulations of closed manifolds, and cohomology of subgroups of Artin groups. **2001f:20080**
**Bass, Hyman** (*with* Lubotzky, Alexander) ★ Tree lattices. (English summary) **2001k:20056**
**Baumslag, Gilbert** (*with* Myasnikov, A. G.[2]; Shpilrain, Vladimir) Open problems in combinatorial group theory. **2001c:20002**
— (*with* Bridson, Martin R.; Miller, Charles F., III; Short, Hamish) Fibre products, non-positive curvature, and decision problems. (English summary) **2001k:20091**
**Bestvina, Mladen** (*with* Feighn, Mark) The topology at infinity of $\mathrm{Out}(F_n)$. (English summary) **2001m:20041**
**Bogley, W. A.** (*with* Gilbert, N. D.; Howie, James) Cockcroft properties of Thompson's group. (English summary) **2001g:20031**
**Bonk, Mario** (*with* Schramm, Oded) Embeddings of Gromov hyperbolic spaces. (English summary) **2001g:53077**
**Bourdon, Marc** Sur les immeubles fuchsiens et leur type de quasi-isométrie. (English and French summaries) [Fuchsian buildings and their quasi-isometry type] **2001g:20056**
**Boutin, Debra L.** When are centralizers of finite subgroups of $\mathrm{Out}(F_n)$ finite? (English summary) **2001c:20078**
**Brady, Noel** Finite subgroups of hyperbolic groups. (English summary) **2001f:20084**
— (*with* Meier, John) Connectivity at infinity for right angled Artin groups. (English summary) **2001b:20068**

**Brady, Thomas** (*with* McCammond, Jonathan P.) Three-generator Artin groups of large type are biautomatic. (English summary) **2001f:20076**
— Artin groups of finite type with three generators. **2001j:20056**
**Bridson, Martin R.** (*with* Vogtmann, Karen) The symmetries of outer space. (English summary) **2001k:20084**
— *see also* **Baumslag, Gilbert et al., 2001k:20091**
**Brinkmann, Peter** Hyperbolic automorphisms of free groups. (English summary) **2001m:20061**
**Bux, Kai-Uwe** (*with* Gonzalez, Carlos) The Bestvina-Brady construction revisited: geometric computation of Σ-invariants for right-angled Artin groups. **2001f:20083**
**(Carbone, Lisa J.)** *see* **Bass, Hyman, 2001k:20056**
**Champetier, Christophe** L'espace des groupes de type fini. (English summary) [The space of finitely generated groups] **2001i:20084**
**Charney, Ruth** (*with* Davis, Michael Walter) When is a Coxeter system determined by its Coxeter group? **2001i:20078**
**Crisp, John S.** Symmetrical subgroups of Artin groups. (English summary) **2001c:20083**
**Croke, Christopher B.** (*with* Kleiner, Bruce) Spaces with nonpositive curvature and their ideal boundaries. (English summary) **2001b:53035**
**Davis, Michael Walter** (*with* Januszkiewicz, Tadeusz; Scott, Richard A.) Nonpositive curvature of blow-ups. **2001f:53078**
— (*with* Januszkiewicz, Tadeusz) Right-angled Artin groups are commensurable with right-angled Coxeter groups. (English summary) **2001m:20056**
— *see also* **Charney, Ruth, 2001i:20078**
**Dranishnikov, Alexander** (*with* Januszkiewicz, Tadeusz) Every Coxeter group acts amenably on a compact space. (English summary) **2001k:20082**
**Dunwoody, M. J.** A small unstable action on a tree. **2001c:20051**
**Eckmann, Beno** Introduction to $l_2$-methods in topology: reduced $l_2$-homology, harmonic chains, $l_2$-Betti numbers. **2001b:57054**
**Farb, Benson** (*with* Mosher, Lee) Problems on the geometry of finitely generated solvable groups. (English summary) **2001j:20064**
— (*with* Lubotzky, Alexander; Minsky, Yair N.) Rank-1 phenomena for mapping class groups. (English summary) **2001k:20076**
**Feighn, Mark** *see* **Bestvina, Mladen, 2001m:20041**
**Gaboriau, Damien** Sur la (co-)homologie $L^2$ des actions préservant une mesure. (English and French summaries) [$L^2$-(co-)homology of measure-preserving actions] **2001d:37004**
**Gersten, S. M.** Distortion and $l_1$-homology. (English summary) **2001c:20094**
**Gilbert, N. D.** *see* **Bogley, W. A. et al., 2001g:20031**
**Gitik, Rita** Doubles of groups and hyperbolic LERF 3-manifolds. (English summary) **2001a:20044**
— Tameness and geodesic cores of subgroups. (English summary) **2001h:20054**
**Gonzalez, Carlos** *see* **Bux, Kai-Uwe, 2001f:20083**
**Grigoryan, Suren Arshakovich** (*with* Gumerov, R. N.; Kazantsev, A. V.) Group structure in finite coverings of compact solenoidal groups. (English summary) **2001j:54046**
**Grunschlag, Zeph** Computing angles in hyperbolic groups. (English summary) **2001h:20055**
**Guba, V. S.** Polynomial isoperimetric inequalities for Richard Thompson's groups $F$, $T$, and $V$. (English summary) **2001j:20061**
**Guirardel, Vincent** Reading small actions of a one-ended hyperbolic group on $\mathbb{R}$-trees from its JSJ splitting. (English summary) **2001h:20056**
**Gumerov, R. N.** *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**
**Hamidi-Tehrani, Hessam** On complexity of the word problem in braid groups and mapping class groups. (English summary) **2001f:20065**
**Harlander, Jens** Some aspects of efficiency. **2001i:20080**
**de la Harpe, Pierre** ★ Topics in geometric group theory. (English summary) **2001i:20081**
**Hosaka, Tetsuya** (*with* Yokoi, Katsuya) Boundaries of Coxeter groups and virtual cohomological dimensions. (*see* **2001m:54001**)
**Howie, James** A short proof of a theorem of Brodskiĭ. (English summary) **2001i:20066**
— *see also* **Bogley, W. A. et al., 2001g:20031**
**Humphries, Stephen P.** Some linear representations of braid groups. (English summary) **2001b:20011**
**Ivanov, Sergei Vladimir** (*with* Margolis, Stuart W.; Meakin, J. C.) On one-relator inverse monoids and one-relator groups. (English summary) **2001m:20107**
— (*with* Meakin, J. C.) On asphericity and the Freiheitssatz for certain finitely presented groups. (English summary) **2001m:20046**
**Januszkiewicz, Tadeusz** *see* **Davis, Michael Walter et al., 2001f:53078; 2001m:20056** *and* **Dranishnikov, Alexander, 2001k:20082**
**Kapoudjian, Christophe** Simplicity of Neretin's group of spheromorphisms. (English and French summaries) **2001b:20070**
**Kapovich, Ilya** Mapping tori of endomorphisms of free groups. (English summary) **2001c:20098**
**Kasagawa, Ryoji** On a function on the mapping class group of a surface of genus 2. (English summary) **2001h:57021**
**Kazantsev, A. V.** *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**
**Kim, Ann Chi** (*with* Kim, Yangkok; Vesnin, A. Yu.) On a class of cyclically presented groups. (English summary) **2001f:20074**
**Kim, Yangkok** *see* **Kim, Ann Chi et al., 2001f:20074**
**Kleiner, Bruce** *see* **Croke, Christopher B., 2001b:53035**
**Krammer, Daan** The braid group $B_4$ is linear. (English summary) **2001k:20078**
**Loday, Jean-Louis** Homotopical syzygies. (English summary) **2001k:55022**
**Lubotzky, Alexander** *see* **Bass, Hyman, 2001k:20056** *and* **Farb, Benson et al., 2001k:20076**
**Lyndon, Roger C.** (*with* Schupp, Paul E.) ★ Combinatorial group theory. **2001i:20064**
**Macura, N.** Quadratic isoperimetric inequality for mapping tori of polynomially growing automorphisms of free groups. (English summary) **2001k:20089**
**Margolis, Stuart W.** *see* **Ivanov, Sergei Vladimir et al., 2001m:20107**
**McCammond, Jonathan P.** A general small cancellation theory. (English summary) **2001f:20064**
— *see also* **Brady, Thomas, 2001f:20076**
**Meakin, J. C.** *see* **Ivanov, Sergei Vladimir et al., 2001m:20046** *and* **2001m:20107**
**Meier, John** *see* **Brady, Noel, 2001b:20068**
**Mihalik, Michael** (*with* Ruane, Kim E.) CAT(0) groups with non-locally connected boundary. (English summary) **2001h:20057**
— (*with* Ruane, Kim E.) CAT(0)HNN-extensions with non-locally connected boundary. (English summary) **2001j:20062**
**Miller, Charles F., III** *see* **Baumslag, Gilbert et al., 2001k:20091**
**Mineyev, Igor** Higher dimensional isoperimetric functions in hyperbolic groups. (English summary) **2001d:20042**
**Minsky, Yair N.** *see* **Farb, Benson et al., 2001k:20076**
**(Mislin, Guido)** *see* **Eckmann, Beno, 2001b:57054**
**Mosher, Lee** *see* **Farb, Benson, 2001j:20064**
**Myasnikov, A. G.**[2] *see* **Baumslag, Gilbert et al., 2001c:20002**
**Noskov, Gen. A.** Growth of certain non-positively curved cube groups. (English summary) **2001k:20092**
**Plaut, Conrad** Geometries on groups. (English summary) **2001d:53045**
**Poleksić, Aleksandar** Groups acting on quasiconvex spaces and translation numbers. (English summary) **2001b:20071**
**Pride, S. J.** (*with* Wang, Jing[1]) Rewriting systems, finiteness conditions, and associated functions. **2001j:20104**
— *see also* **Wang, Xiao Feng[1], 2001h:20086**
**(Rosenberg, Gabriel)** *see* **Bass, Hyman, 2001k:20056**
**Rosenmann, Amnon** An asymptotic invariant of surface groups. (English summary) **2001g:20054**
**Ruane, Kim E.** The angle question. (English summary) **2001k:20093**
— *see also* **Mihalik, Michael, 2001h:20057** *and* **2001j:20062**
**Schmutz Schaller, Paul** Mapping class groups of hyperbolic surfaces and automorphism groups of graphs. (English summary) **2001g:57033**
**Schramm, Oded** *see* **Bonk, Mario, 2001g:53077**
**Schupp, Paul E.** *see* **Lyndon, Roger C., 2001i:20064**
**Scott, Peter** (*with* Swarup, Gadde A.) Splittings of groups and intersection numbers. (English summary) **2001h:20032**
**Scott, Richard A.** *see* **Davis, Michael Walter et al., 2001f:53078**
**Short, Hamish** Finitely presented subgroups of a product of two free groups. (English summary) **2001m:20048**
— *see also* **Baumslag, Gilbert et al., 2001k:20091**
**Shpilrain, Vladimir** *see* **Baumslag, Gilbert et al., 2001c:20002**
**Stallings, John R.** Surfaces mapping to wedges of spaces. A topological variant of the Grushko-Neumann theorem. (English summary) **2001c:20050**
**Swarup, Gadde A.** *see* **Scott, Peter, 2001h:20032**
**Swenson, Eric L.** A cut point theorem for CAT(0) groups. (English summary) **2001i:20083**
— A cutpoint tree for a continuum. (English summary) **2001i:20085**
**Szczepański, Andrzej** (*with* Vesnin, A. Yu.) Generalized Neuwirth groups and Seifert fibered manifolds. (English summary) **2001k:57002**
**Taback, Jennifer** Quasi-isometric rigidity for $PSL_2(\mathbb{Z}[1/p])$. **2001k:22023**
**Tanasi, Corrado** Groups simply connected at infinity. (Italian. English summary) **2001g:57002**
**(Tits, J.)** *see* **Bass, Hyman, 2001k:20056**
**Vesnin, A. Yu.** *see* **Kim, Ann Chi et al., 2001f:20074** *and* **Szczepański, Andrzej, 2001k:57002**
**Vogtmann, Karen** *see* **Bridson, Martin R., 2001k:20084**
**Wang, Jing[1]** *see* **Pride, S. J., 2001j:20104**
**Wang, Xiao Feng[1]** Mappings of groups and quasi-retractions. **2001e:20034**
— (*with* Pride, S. J.) Second order Dehn functions of groups and monoids. **2001h:20086**
**Wise, Daniel T.** Subgroup separability of graphs of free groups with cyclic edge groups. (English summary) **2001e:20026**
**Yokoi, Katsuya** Edwards-Walsh resolutions of complexes and abelian groups. (*see* **2001m:54001**)
— *see also* **Hosaka, Tetsuya, (2001m:54001)**

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**Problems:**
**Combinatorial group theory** *see* **Baumslag, Gilbert et al., 2001c:20002**
**Progress in Mathematics** *see* **Bass, Hyman, 2001k:20056**

## 57M10 Covering spaces

**Bao, Zhiqiang** Construction of covering maps between orientable surfaces. (English summary) **2001d:57003**
**El-Kholy, E. M.** Convex isometric folding. (English summary) **2001b:57002**
**Huang, Hong** $\pi_1$-finite-index maps from 3-manifolds covered by torus bundles over $S^1$. (English and Chinese summaries) **2001f:57004**
**Myers, John Robert** On covering translations and homeotopy groups of contractible open $n$-manifolds. (English summary) **2001a:57005**

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**Adhikari, M. R.** (*with* Das, Pratyayananda) Lattices associated with covering spaces. (English summary) **2001a:57003**
**Christensen, Antje** Homology of manifolds obtained by Dehn surgery on knots in lens spaces. (English summary) **2001e:57020**
**Das, Pratyayananda** *see* **Adhikari, M. R., 2001a:57003**
**Lee, Ronnie** (*with* Li, Tian-Jun) Intersection forms of non-spin four manifolds. **2001m:57027**
**Li, Tian-Jun** *see* **Lee, Ronnie, 2001m:57027**
**Liskovets, V. A.** (*with* Mednykh, Aleksandr D.) Enumeration of subgroups in the fundamental groups of orientable circle bundles over surfaces. (English summary) **2001h:57003**
**Maksimenko, S. I.** On a conjecture of J. Whitehead. (Russian) **2001b:57007**
**Mednykh, Aleksandr D.** *see* **Liskovets, V. A., 2001h:57003**
**Myers, John Robert** Contractible open 3-manifolds with free covering translation groups. (English summary) **2001a:57031**

## 57M12 Special coverings, e.g. branched

**Cavicchioli, Alberto** (*with* Ruini, Beatrice; Spaggiari, Fulvia) Cyclic branched coverings of 2-bridge knots. (English summary) **2001b:57003**
**Fuller, Terry** On fiber-preserving isotopies of surface homeomorphisms. (English summary) **2001g:57004**
**Litherland, R. A.** The homology of abelian covers of knotted graphs. (English summary) **2001b:57004**
**Mulazzani, Michele** A family of gems for Brieskorn 3-manifolds. (English summary) **2001c:57006**
**Pilgrim, Kevin M.** Canonical Thurston obstructions. (English summary) **2001m:57004**
**Ruini, Beatrice** *see* **Cavicchioli, Alberto et al., 2001b:57003**
**Spaggiari, Fulvia** *see* **Cavicchioli, Alberto et al., 2001b:57003**

### Items with secondary classifications in 57M12

**Baines, Clare** The multiplicity of the Lyashko-Looijenga mapping on the discriminant strata of even and odd polynomials. **2001a:57042**
**Benvenuti, Silvia** Hopf algebras and invariants of combed and framed 3-manifolds. (English summary) **2001e:57006**
**Bergeron, Nicolas** Sur l'homologie et le spectre des variétés hyperboliques. (French summary) [Homology and spectrum of hyperbolic manifolds] **2001m:20086**
**Bousquet-Mélou, Mireille** (*with* Schaeffer, Gilles) Enumeration of planar constellations. (English summary) **2001g:05006**
**Breda d'Azevedo, Antonio J.** (*with* Jones, Gareth A.) Double coverings and reflexive abelian hypermaps. (English summary) **2001k:57005**
**Cavicchioli, Alberto** (*with* Paoluzzi, L.) On certain classes of hyperbolic 3-manifolds. (English summary) **2001d:57018**
**Collin, Olivier** Floer homology for knots and SU(2)-representations for knot complements and cyclic branched covers. (English summary) **2001e:57004**
**Costa, Antonio F.** One example of 1-dimensional Hurwitz space. (*see* **2001h:00039**)
**Frediani, Paola** Monodromies of generic real algebraic functions. (English summary) **2001i:58082**
**Hironaka, Eriko** Plumbing graphs for normal surface-curve pairs. (English summary) **2001i:57006**
**Imayoshi, Yoichi** (*with* Ito, Manabu; Yamamoto, Hiroshi) Monodromy of a holomorphic family of Riemann surfaces. (English summary) **2001m:30053**
**Ito, Manabu** *see* **Imayoshi, Yoichi et al., 2001m:30053**
**Izawa, Takeshi** Chern number formula for ramified coverings. (English summary) **2001i:32028**
**Jones, Gareth A.** *see* **Breda d'Azevedo, Antonio J., 2001k:57005**
**Kim, Yangkok** About some infinite family of 2-bridge knots and 3-manifolds. (English summary) **2001g:57014**
**Masters, Joseph D.** Virtual homology of surgered torus bundles. (English summary) **2001g:57037**
**Natanzon, S. M.** Moduli of Riemann surfaces of a Hurwitz-type space and their super-analogues. (Russian) **2001g:32038**
**Némethi, András** Casson invariant of cyclic coverings via eta-invariant and Dedekind sums. (English summary) **2001b:57030**
**Okounkov, Andrei** Toda equations for Hurwitz numbers. (English summary) **2001i:14047**
**Paoluzzi, L.** *see* **Cavicchioli, Alberto, 2001d:57018**
**Reni, Marco** On $\pi$-hyperbolic knots with the same 2-fold branched coverings. (English summary) **2001c:57010**
— On the isometry groups of cyclic branched coverings of hyperbolic knots. (English summary) **2001e:57016**
**Ronga, Felice** A real Riemann-Hurwitz theorem. (English summary) **2001i:14073**
**Ruberman, Daniel** Embedding tangles in links. (English summary) **2001d:57013**
**Saveliev, Nikolai** A surgery formula for the $\overline{\mu}$-invariant. (English summary) **2001g:57025**
**Schaeffer, Gilles** *see* **Bousquet-Mélou, Mireille, 2001g:05006**
**Stevens, Wayne H.** Recursion formulas for some abelian knot invariants. (English summary) **2001j:57018**
**Whittlesey, Kim** Normal all pseudo-Anosov subgroups of mapping class groups. (English summary) **2001j:57022**
**Yamamoto, Hiroshi** *see* **Imayoshi, Yoichi et al., 2001m:30053**
**Zvonkin, Alexander** Towards topological classification of univariate complex polynomials. (English summary) **2001i:14039**

## 57M15 Relations with graph theory [see also 05Cxx]

**Alemzadeh, A. A.** Bordism group of map graphs. (English summary) **2001j:57005**
**Arquès, Didier** (*with* Béraud, Jean-François) Le schéma de carte et ses applications. (English summary) [The sketch of map and its applications] **2001m:57005**
**Bandieri, Paola** (*with* Rivi, Marzia) Representing products of manifolds by edge-coloured graphs: the boundary case. (English summary) **2001k:57003**
**Baues, Oliver** (*with* Peyerimhoff, N.) Curvature and geometry of tessellating plane graphs. (English summary) **2001k:57004**
**Béraud, Jean-François** *see* **Arquès, Didier, 2001m:57005**
**Breda d'Azevedo, Antonio J.** (*with* Jones, Gareth A.) Double coverings and reflexive abelian hypermaps. (English summary) **2001k:57005**
**Carpentier, Rui Pedro** From planar graphs to embedded graphs—a new approach to Kauffman and Vogel's polynomial. (English summary) **2001m:57006**
**Cortés, Carmen** (*with* Nakamoto, Atsuhiro) Diagonal flips in outer-Klein-bottle triangulations. (English summary) **2001d:57004**
**Forman, Robin** Morse theory and evasiveness. (English summary) **2001k:57006**
**de Fraysseix, H.** (*with* Ossona de Mendez, P.) On topological aspects of orientations. (English summary) **2001m:57007**
**Hironaka, Eriko** Plumbing graphs for normal surface-curve pairs. (English summary) **2001i:57006**
**Howards, Hugh Nelson** Knotted spheres and graphs in balls. (English summary) **2001g:57005**
**Jones, Gareth A.** *see* **Surowski, David B., 2001b:57005** *and* **Breda d'Azevedo, Antonio J., 2001k:57005**
**Mednykh, Aleksandr D.** *see* **Vesnin, A. Yu., 2001c:57007**
**Nakamoto, Atsuhiro** *see* **Cortés, Carmen, 2001d:57004**
**Nikkuni, Ryo** The second skew-symmetric cohomology group and spatial embeddings of graphs. (English summary) **2001d:57005**
**Ossona de Mendez, P.** *see* **de Fraysseix, H., 2001m:57007**
**Peyerimhoff, N.** *see* **Baues, Oliver, 2001k:57004**
**Rivi, Marzia** *see* **Bandieri, Paola, 2001k:57003**
**Surowski, David B.** (*with* Jones, Gareth A.) Cohomological constructions of regular cyclic coverings of the Platonic maps. (English summary) **2001b:57005**
**Vesnin, A. Yu.** (*with* Mednykh, Aleksandr D.) Spherical Coxeter groups and hyperelliptic 3-manifolds. (Russian. Russian summary) **2001c:57007**

### Items with secondary classifications in 57M15

**A'Campo, Norbert** A combinatorial property of generic immersions of curves. **2001m:58079**
**Adams, Colin** (*with* Dorman, Ryan; Foley, Kerryann; Kravis, Jonathan; Payne, Sam) Alternating graphs. (English summary) **2001a:05044**
**Arquès, Didier** (*with* Giorgetti, Alain) Counting rooted maps on a surface. (English summary) **2001f:05078**
**Bennett, Curtis D.** A topological characterization of end sets of a twinning of a tree. (English summary) **2001k:05057**
**Benvenuti, Silvia** Hopf algebras and invariants of combed and framed 3-manifolds. (English summary) **2001e:57006**
**Björner, Anders** (*with* Lutz, Frank H.) Simplicial manifolds, bistellar flips and a 16-vertex triangulation of the Poincaré homology 3-sphere. (English summary) **2001h:57026**
**Bretto, Alain** Some geometrical and topological aspects of graph theory. (English summary) **2001d:05042**
**Casali, Maria Rita** From framed links to crystallizations of bounded 4-manifolds. (English summary) **2001a:57007**
**Chen, Beifang** (*with* Kwak, Jin Ho; Lawrencenko, Serge) Weinberg bounds over nonspherical graphs. (English summary) **2001f:05053**
**Chmutov, S. V.** *see* **Duzhin, S. V. et al., 2001b:57024**
**Cortés, Carmen** (*with* Nakamoto, Atsuhiro) Diagonal flips in outer-torus triangulations. (English summary) **2001f:05054**
**Deza, Michel-Marie** (*with* Shtogrin, Mikhail) Embedding the graphs of regular tilings and star-honeycombs into the graphs of hypercubes and cubic lattices. (English summary) **2001i:52031**
— (*with* Shtogrin, Mikhail) Embedding of chemical graphs into hypercubes. (Russian. Russian summary) **2001m:05248**
**Dorman, Ryan** *see* **Adams, Colin et al., 2001a:05044**
**Duzhin, S. V.** (*with* Kaishev, A. I.; Chmutov, S. V.) The algebra of 3-graphs. (Russian) **2001b:57024**
**Faria, Luerbio** (*with* de Figueiredo, Celina Miraglia Herrera) On Eggleton and Guy's conjectured upper bound for the crossing number of the $n$-cube. (English summary) **2001f:05056**
**de Figueiredo, Celina Miraglia Herrera** *see* **Faria, Luerbio, 2001f:05056**
**Foley, Kerryann** *see* **Adams, Colin et al., 2001a:05044**
**Frediani, Paola** Monodromies of generic real algebraic functions. (English summary) **2001i:58082**
**Ghuman, Simrat M.** Invariants of graphs. **2001h:57010**
**Giorgetti, Alain** *see* **Arquès, Didier, 2001f:05078**
**Hog-Angeloni, Cynthia** Detecting 3-manifold presentations. (English summary) **2001g:57001**
**Ikeda, Hiroshi[1]** (*with* Yamashita, Masakatsu; Yokoyama, Kazuo) Remodeling a DS-diagram into one with E-cycle. **2001e:57021**
**Im, Young Ho** (*with* Kim, Soo Hwan) An irreducible Heegaard diagram of the real projective 3-space $\mathbf{P}^3$. (English summary) **2001c:57022**
**Jackson, David M.** (*with* Visentin, Terry I.) ★ An atlas of the smaller maps in orientable and nonorientable surfaces. (English summary) **2001j:05001**
**Jendrof, Stanislav** (*with* Voss, H. J.) Subgraphs with restricted degrees of their vertices in large polyhedral maps on compact two-manifolds. (English summary) **2001b:05067**
— (*with* Voss, H. J.) A local property of large polyhedral maps on compact 2-dimensional manifolds. (English summary) **2001d:05045**
— (*with* Voss, H. J.) Light paths with an odd number of vertices in polyhedral maps. (English summary) **2001f:05057**
**Jones, Gareth A.** (*with* Surowski, David B.) Regular cyclic coverings of the Platonic maps. (English summary) **2001a:05076**
**Joyal, André** (*with* Tierney, Myles) On the theory of path groupoids. (English summary) **2001j:55012**
**Kaishev, A. I.** *see* **Duzhin, S. V. et al., 2001b:57024**
**Kim, Soo Hwan** *see* **Im, Young Ho, 2001c:57022**
**Kravis, Jonathan** *see* **Adams, Colin et al., 2001a:05044**
**Kurlin, V. A.** Basic embeddings into a product of graphs. (English summary) **2001b:54023**
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## 57M20 Two-dimensional complexes

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**Meakin, J. C.** *see* **Ivanov, Sergei Vladimir et al., 2001m:20046** *and* **2001m:20107**
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**Wang, Xiao Feng[1]** Mappings of groups and quasi-retractions. **2001e:20034**
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## 57M25 Knots and links in $S^3$ {For higher dimensions, see 57Q45.}

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**Aicardi, Francesca** Self-linking of space curves without inflections and its applications. (Russian. Russian summary) **2001g:57007**
**Askitas, N. A.** A grid of type $p \times q$ with $\gcd\{p, q\} = 6$ unknots. (English summary) **2001i:57007**
**Baker, Mark D.** Link complements and the Bianchi modular groups. **2001j:57007**
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**Carter, J. Scott** (*with* Jelsovsky, Daniel; Kamada, Seiichi; Saito, Masahico) Computations of quandle cocycle invariants of knotted curves and surfaces. (English summary) **2001m:57009**
**Casali, Maria Rita** From framed links to crystallizations of bounded 4-manifolds. (English summary) **2001a:57007**
**Chang, Jae-Ho** (*with* Lee, Sang Youl; Park, Chan-Young) On the 2-parallel versions of links. (English summary) **2001b:57011**
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**Dai, Xingde** (*with* Diao, Yuanan) The minimum of knot energy functions. (English summary) **2001g:57008**
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**El-Sayied, Hoda Kamal Mohamed** On maximally looped closed curves. (English summary)
**Emert, John W.** (*with* Ernst, Claus Dieter) $N$-string tangles. (English summary) **2001m:57010**
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**Eudave-Muñoz, Mario** Essential meridional surfaces for tunnel number one knots. (English summary) **2001m:57011**
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**Frohman, Charles** (*with* Gelca, Răzvan) Skein modules and the noncommutative torus. (English summary) **2001b:57014**
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**Hoidn, Phoebe** On the 1-bridge genus of small knots. (English summary) **2001d:57007**
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**Nakamura, Takuji[2]** Positive alternating links are positively alternating. (English summary) **2001a:57016**

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**Nakanishi, Yasutaka** (*with* Shibuya, Tetsuo[1]) Link homotopy and quasi self delta-equivalence for links. (English summary) **2001d:57011**

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**Carpentier, Rui Pedro** From planar graphs to embedded graphs—a new approach to Kauffman and Vogel's polynomial. (English summary) **2001m:57006**

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## 57M30 Wild knots and surfaces, etc., wild embeddings

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## 57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity

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## 57M40 Characterizations of $E^3$ and $S^3$ (Poincaré conjecture) [see also 57N12]

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## 57M50 Geometric structures on low-dimensional manifolds

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**Hilden, Hugh M.** (*with* Lozano Imízcoz, María Teresa; Montesinos-Amilibia, José María) On the character variety of tunnel number 1 knots. (English summary) **2001i:57009**

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**Hog-Angeloni, Cynthia** Detecting 3-manifold presentations. (English summary) **2001g:57001**

**Honda, Ko** On the classification of tight contact structures. I. (English summary) **2001i:53148**

**Howards, Hugh Nelson** *see* **Freedman, Michael Hartley et al., 2001i:57025**

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**Ito, Kentaro** Exotic projective structures and quasi-Fuchsian space. **2001j:30038**

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**Jones, Matt** (*with* Scharlemann, Martin) How a strongly irreducible Heegaard splitting intersects a handlebody. (English summary) **2001m:57033**

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**Kim, Soo Hwan** *see* **Im, Young Ho, 2001c:57022**

**Kim, Yangkok** About some infinite family of 2-bridge knots and 3-manifolds. (English summary) **2001g:57014**

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**Levitt, Gilbert** (*with* Vogtmann, Karen) A Whitehead algorithm for surface groups. (English summary) **2001g:57003**

**Lisca, Paolo** On symplectic fillings of 3-manifolds. **2001f:53178**

**Long, D. D.** (*with* Reid, A. W.) On the geometric boundaries of hyperbolic 4-manifolds. (English summary) **2001e:57037**

**Lozano Imízcoz, María Teresa** *see* **Hilden, Hugh M. et al., 2001i:57009**

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**Makarov, V. S.** *see* **Damian, F. L., 2001f:52034**

**Margulis, Grigorii A.** *see* **Goldman, William M., 2001m:53124**

**Matsuzaki, Katsuhiko** Convergence of the Hausdorff dimension of the limit sets of Kleinian groups. (English summary) **2001f:30053**

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**McCarthy, John D.** On the asphericity of a symplectic $M^3 \times S^1$. (English summary) **2001c:57024**

**Mednykh, Aleksandr D.** *see* **Vesnin, A. Yu., 2001c:57007**

**Millson, John J.** *see* **Kapovich, Michael et al., 2001m:53158**

**Minicozzi, William P., II** *see* **Colding, Tobias H., 2001i:53012**

**Montesinos-Amilibia, José María** *see* **Hilden, Hugh M. et al., 2001i:57009**

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**Myers, John Robert** Contractible open 3-manifolds with free covering translation groups. (English summary) **2001a:57031**

**Neumann, Walter D.** Notes on geometry and 3-manifolds. **2001a:57032**

**(Norbury, Paul)** *see* **Neumann, Walter D., 2001a:57032**

**Ozawa, Makoto[2]** *see* **Ichihara, Kazuhiro, 2001f:57007**

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**Poénaru, V.** (*with* Tanasi, Corrado) On the handles of index one of the product of an open simply-connected 3-manifold with a high-dimensional ball. (English summary) **2001g:57038**

**Ratcliffe, John G.** (*with* Tschantz, Steven T.) The volume spectrum of hyperbolic 4-manifolds. (English summary) **2001b:57048**

**Reid, A. W.** *see* **Long, D. D., 2001e:57037**

**Reni, Marco** On $\pi$-hyperbolic knots with the same 2-fold branched coverings. (English summary) **2001c:57010**

**Roushon, Sayed K.** $L$-theory of 3-manifolds with nonvanishing first Betti number. **2001b:57075**

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**Rubinstein, Joachim H.** (*with* Scharlemann, Martin) Genus two Heegaard splittings of orientable three-manifolds. (English summary) **2001e:57022**

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**Schmutz Schaller, Paul** Systoles and topological Morse functions for Riemann surfaces. **2001d:32018**

**Schulteus, Jennifer** Additivity of tunnel number for small knots. (English summary) **2001i:57012**

**Series, Caroline** An extension of Wolpert's derivative formula. (English summary) **2001m:30055**

**Song, Yongjin** Ribbon category and mapping class groups. (English summary) **2001e:18009**

**Stallings, John R.** Whitehead graphs on handlebodies. (English summary) **2001i:57028**

**Szczepański, Andrzej** (*with* Vesnin, A. Yu.) Generalized Neuwirth groups and Seifert fibered manifolds. (English summary) **2001k:57002**

**Tanasi, Corrado** *see* **Poénaru, V., 2001g:57038**

**Thaddeus, Michael** A perfect Morse function on the moduli space of flat connections. (English summary) **2001h:53123**

**Trace, B.** *see* **Corson, Jon M., 2001f:57005**

**Treloar, Thomas** *see* **Kapovich, Michael et al., 2001m:53158**

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**Visentin, Terry I.** *see* **Jackson, David M., 2001j:05001**

**Vogtmann, Karen** *see* **Levitt, Gilbert, 2001g:57003**

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## 57M60 Group actions in low dimensions

**Brinkmann, Peter** An implementation of the Bestvina-Handel algorithm for surface

homeomorphisms. (English summary) **2001e:57017**
**Cappell, Sylvain** (*with* Lee, Ronnie; Miller, E. Y.) The Torelli group action on representation spaces. **2001i:57024**
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**Davis, Michael Walter** (*with* Moussong, G.) Notes on nonpositively curved polyhedra. **2001b:57040**
**Farb, Benson** (*with* Shalen, Peter B.) Lattice actions, 3-manifolds and homology. **2001b:57041**
**Geiges, Hansjörg** (*with* Rattaggi, Diego) Periodic automorphisms of surfaces: invariant circles and maximal orders. (English summary) **2001k:57023**
**Korkmaz, Mustafa** On the linearity of certain mapping class groups. (English summary) **2001j:57020**
**Lawrence, Donald D.** 4-manifolds are quotients of $\mathbf{R}^4$. (English summary) **2001d:57020**
**Lee, Ronnie** *see* **Cappell, Sylvain et al., 2001g:57034** *and* **2001i:57024**
**Luo, Feng[1]** Automorphisms of Thurston's space of measured laminations. (English summary) **2001a:57028**
**Miller, E. Y.** *see* **Cappell, Sylvain et al., 2001g:57034** *and* **2001i:57024**
**Moussong, G.** *see* **Davis, Michael Walter, 2001b:57040**
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**Reni, Marco** On finite groups acting on homology 3-spheres. (English summary) **2001j:57021**
**Shalen, Peter B.** *see* **Farb, Benson, 2001b:57041**
**Wanderley, Marcus** Free actions of cyclic and dihedral groups on handlebodies. (English summary) **2001f:57020**
**Whittlesey, Kim** Normal all pseudo-Anosov subgroups of mapping class groups. (English summary) **2001j:57022**
**Zimmermann, Bruno** Finite maximal orientation reversing group actions on handlebodies and 3-manifolds. (English summary) **2001b:57042**

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**Akiyoshi, Hirotaka** An example of Kleinian groups with indiscrete horoball heights. (*see* **2001f:57001**)
**Bridgeman, Martin** (*with* Taylor, Edward C.[2]) Length distortion and the Hausdorff dimension of limit sets. (English summary) **2001e:37058**
**Calegari, Danny** Geometry and topology of R-covered foliations. (English summary) **2001e:57013**
**Charney, Ruth** (*with* Davis, Michael Walter) When is a Coxeter system determined by its Coxeter group? **2001i:20078**
**Colding, Tobias H.** (*with* Minicozzi, William P., II) Embedded minimal surfaces without area bounds in 3-manifolds. **2001i:53012**
**Daskalopoulos, Georgios** (*with* Katzarkov, Ludmil; Wentworth, Richard) Harmonic maps to Teichmüller space. (English summary) **2001b:32022**
**Davis, Michael Walter** *see* **Charney, Ruth, 2001i:20078**
**Dekimpe, Karel** (*with* Ongenae, Veerle) On the number of abelian left symmetric algebras. (English summary) **2001b:17001**
**Farb, Benson** (*with* Mosher, Lee) Quasi-isometric rigidity for the solvable Baumslag-Solitar groups. II. **2001g:20053**
**Gaboriau, Damien** Sur la (co-)homologie $L^2$ des actions préservant une mesure. (English and French summaries) [$L^2$-(co-)homology of measure-preserving actions] **2001d:37004**
**Hong, Sungbok** (*with* McCullough, Darryl) Concentration points for Fuchsian groups. (English summary) **2001f:20109**
**Katzarkov, Ludmil** *see* **Daskalopoulos, Georgios et al., 2001b:32022**
**Lott, John** Invariant currents on limit sets. (English summary) **2001m:58066**
**Masters, Joseph D.** Length multiplicities of hyperbolic 3-manifolds. (English summary) **2001k:57019**
**May, Coy L.** (*with* Zimmerman, Jay) Groups of small strong symmetric genus. **2001g:20044**
**McCullough, Darryl** *see* **Hong, Sungbok, 2001f:20109**
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**Mozhei, N. P.** Locally transitive affine actions in low dimensions. (Russian. English and Russian summaries) **2001i:22028**
**Myers, John Robert** Contractible open 3-manifolds with free covering translation groups. (English summary) **2001a:57031**
**Ongenae, Veerle** *see* **Dekimpe, Karel, 2001b:17001**
**Previte, Joseph P.** (*with* Xia, Eugene Z.) Topological dynamics on moduli spaces. I. (English summary) **2001e:53090**
**Puppe, V.** Group actions and codes. (English summary) **2001m:55010**
**Reni, Marco** On $\pi$-hyperbolic knots with the same 2-fold branched coverings. (English summary) **2001c:57010**
**Shalen, Peter B.** Three-manifold topology and the tree for $PSL_2$: the Smith conjecture and beyond. (English summary) **2001b:57038**
**Swenson, Eric L.** A cut point theorem for CAT(0) groups. (English summary) **2001i:20083**
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**Taylor, Edward C.[2]** *see* **Bridgeman, Martin, 2001e:37058**
**Wentworth, Richard** *see* **Daskalopoulos, Georgios et al., 2001b:32022**
**Xia, Eugene Z.** *see* **Previte, Joseph P., 2001e:53090**
**Zimmerman, Jay** *see* **May, Coy L., 2001g:20044**

### 57M99 None of the above, but in this section

**Bertrand, Gilles** (*with* Malgouyres, Rémy) Some topological properties of surfaces in $\mathbf{Z}^3$. (English summary) **2001c:57020**
**Gautero, François** Dynamical $n$-complexes. (English and French summaries) **2001e:57018**
**Malgouyres, Rémy** *see* **Bertrand, Gilles, 2001c:57020**
**Neretin, Yurii A.** Notes on affine isometric actions of discrete groups. (English summary) **2001e:57019**
**Reznikov, Alexander** Embedded incompressible surfaces and homology of ramified coverings of three-manifolds. **2001g:57035**
**Satoh, Shin** Minimal triple point numbers of some non-orientable surface-links. (English summary) **2001m:57031**

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**Button, J. O.** Matrix representations and the Teichmüller space of the twice punctured torus. (English summary) **2001i:32024**
**Dey, Tamal K.** (*with* Edelsbrunner, Herbert; Guha, Sumanta; Nekhayev, Dmitry V.) Topology preserving edge contraction. (English summary) **2001f:57026**
**Di Francesco, P.** Exact asymptotics of meander numbers. (English summary) **2001i:05016**
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**Gilmer, Patrick M.** Floppy curves, with applications to real algebraic curves. (English summary) **2001j:14079**
**Goldman, William M.** (*with* Kapovich, Michael; Leeb, Bernhard) Complex hyperbolic manifolds homotopy equivalent to a Riemann surface. (English summary) **2001m:32049**
**Guha, Sumanta** *see* **Dey, Tamal K. et al., 2001f:57026**
**Hillman, Jonathan A.** Virtual surface bundle groups. (English summary) **2001i:57029**
**Kapovich, Michael** *see* **Goldman, William M. et al., 2001m:32049**
**Kelly, Michael R.** Bounds on the fixed point indices for self-maps of certain simplicial complexes. (English summary) **2001h:55003**
**Landi, Claudia** Cohomology rings of Artin groups. (English and Italian summaries) **2001j:20082**
**Leeb, Bernhard** *see* **Goldman, William M. et al., 2001m:32049**
**Miyachi, Hideki** On cusps in the boundary of the Maskit slice for once punctured torus groups. (*see* **2001h:37090**)
**Nekhayev, Dmitry V.** *see* **Dey, Tamal K. et al., 2001f:57026**
**Oliveros, Déborah** The space of pentagons and the flotation problem. (English summary) **2001e:52029**
**Polulyakh, E. A.** On the embedding of total spaces of fiber bundles over a circle with the Cantor set as a fiber into two-dimensional manifolds. (Russian. English, Russian and Ukrainian summaries) **2001h:37019**
**Song, Yongjin** The braidings of mapping class groups and loop spaces. (English summary) **2001f:18019**

## 57Nxx Topological manifolds

### 57N05 Topology of $E^2$, 2-manifolds

**Champanerkar, Abhijit** (*with* Kumar, Ajit[2]; Kumaresan, S.) Classification of surfaces via Morse theory. **2001d:57021**
**Kasagawa, Ryoji** On a function on the mapping class group of a surface of genus 2. (English summary) **2001h:57021**
**Korkmaz, Mustafa** (*with* McCarthy, John D.) Surface mapping class groups are ultrahopfian. **2001c:57021**
**Kumar, Ajit[2]** *see* **Champanerkar, Abhijit et al., 2001d:57021**
**Kumaresan, S.** *see* **Champanerkar, Abhijit et al., 2001d:57021**
**McCarthy, John D.** *see* **Korkmaz, Mustafa, 2001c:57021**
**Yagasaki, Tatsuhiko** Spaces of embeddings of compact polyhedra into 2-manifolds. (English summary) **2001k:57024**
— Homotopy types of homeomorphism groups of noncompact 2-manifolds. (English summary) **2001j:57023**

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**Bonahon, Francis** Geodesic laminations on surfaces. **2001m:57023**
**Bouhjar, Khalid** (*with* Dijkstra, Jan J.; Mauldin, R. Daniel) No $n$-point set is $\sigma$-compact. (English summary) **2001j:54044**
**Dijkstra, Jan J.** *see* **Bouhjar, Khalid et al., 2001j:54044**
**Endo, Hisaaki** Meyer's signature cocycle and hyperelliptic fibrations. (English summary) **2001b:57047**
**Fuller, Terry** On fiber-preserving isotopies of surface homeomorphisms. (English summary) **2001g:57004**
**Funar, Louis** (*with* Gelca, Răzvan) On the groupoid of transformations of rigid structures on surfaces. (English summary) **2001b:57032**
**Gelca, Răzvan** *see* **Funar, Louis, 2001b:57032**
**Green, Linda E.** Incompressible surfaces in handlebodies. (English summary) **2001b:57043**
**Hamidi-Tehrani, Hessam** On complexity of the word problem in braid groups and mapping class groups. (English summary) **2001f:20065**
**Jackson, David M.** (*with* Visentin, Terry I.) ★ An atlas of the smaller maps in orientable and nonorientable surfaces. (English summary) **2001j:05001**
**Johnson, W. B.** (*with* Lindenstrauss, Joram; Preiss, David; Schechtman, G.) Uniform quotient mappings of the plane. **2001a:54037**
**Kelly, Michael R.** Bounds on the fixed point indices for self-maps of certain simplicial complexes. (English summary) **2001h:55003**
**Korkmaz, Mustafa** On the linearity of certain mapping class groups. (English summary) **2001j:57020**
**Krein, Mark Grigor'evich** (*with* Nudelman, Adolf Abramovich) The Borsuk-Ulam theorem. **2001g:55001**
**Lindenstrauss, Joram** *see* **Johnson, W. B. et al., 2001a:54037**
**Luo, Feng[1]** Automorphisms of Thurston's space of measured laminations. (English summary) **2001a:57028**
**Lustig, Martin** (*with* Oertel, Ulrich) Invariant laminations for diffeomorphisms of handlebodies. (English summary) **2001m:57028**
**Mauldin, R. Daniel** *see* **Bouhjar, Khalid et al., 2001j:54044**
**McCarthy, John D.** On the first cohomology group of cofinite subgroups in surface mapping class groups. (English summary) **2001m:57029**
**Nudelman, Adolf Abramovich** *see* **Krein, Mark Grigor'evich, 2001g:55001**
**Oertel, Ulrich** *see* **Lustig, Martin, 2001m:57028**
**Polulyakh, E. A.** On imbedding of closed 2-dimensional disks into $\mathbf{R}^2$. (English summary) **2001m:54037**
**Preiss, David** *see* **Johnson, W. B. et al., 2001a:54037**

**Schechtman, G.** *see* **Johnson, W. B. et al., 2001a:54037**
**Sprows, David J.** Local subhomeotopy groups of bounded surfaces. (English summary) **2001g:57042**
**Takarajima, Itaru** A combinatorial representation of curves using train tracks. (English summary) **2001f:57018**
— A combinatorial representation of $\partial D^2$ using train tracks. (English summary) **2001f:57019**
**Visentin, Terry I.** *see* **Jackson, David M., 2001j:05001**
**Whittlesey, Kim** Normal all pseudo-Anosov subgroups of mapping class groups. (English summary) **2001j:57022**

## 57N10 Topology of general 3-manifolds [see also 57Mxx]

**Bondar', O. P.** On some functions on three-dimensional manifolds. (Russian) **2001a:57029**
**Bryden, John M.** (*with* Hayat-Legrand, C.; Zieschang, H.; Zvengrowski, Peter) The cohomology ring of a class of Seifert manifolds. (English summary) **2001d:57022**
**Chinen, Naotsugu** Orientable 3-manifolds fibering over closed surfaces and codimension 2 fibrators. (Japanese) (*see* **2001a:54001**)
**Christensen, Antje** Homology of manifolds obtained by Dehn surgery on knots in lens spaces. (English summary) **2001e:57020**
**Derbez, Pierre** A criterion for homeomorphism between closed Haken manifolds. (English and French summaries) **2001h:57022**
**Freedman, Michael Hartley** (*with* Howards, Hugh Nelson; Wu, Ying-Qing) Extension of incompressible surfaces on the boundaries of 3-manifolds. (English summary) **2001i:57025**
**Fujii, Michihiko** A cone angle condition on strong convergence of hyperbolic 3-cone-manifolds. (*see* **2001f:57001**)
**Fukumoto, Yoshihiro** On an invariant of plumbed homology 3-spheres. (English summary) **2001m:57032**
**Gao, Da-xin** *see* **Lei, Feng Chun et al., 2001j:57025**
**Gómez-Larrañaga, J. C.** (*with* González-Acuña, F.; Turaev, Vladimir) Homology category of 3-manifolds. (English summary) **2001g:57036**
**González-Acuña, F.** *see* **Gómez-Larrañaga, J. C. et al., 2001g:57036**
**Gordon, Cameron McA.** (*with* Wu, Ying-Qing) Annular Dehn fillings. (English summary) **2001j:57024**
**Green, Linda E.** Incompressible surfaces in handlebodies. (English summary) **2001b:57043**
**Hass, Joel** (*with* Rubinstein, Joachim H.; Wang, Shicheng) Boundary slopes of immersed surfaces in 3-manifolds. (English summary) **2001h:57023**
**Hayat-Legrand, C.** *see* **Bryden, John M. et al., 2001d:57022**
**Howards, Hugh Nelson** *see* **Freedman, Michael Hartley et al., 2001i:57025**
**Huang, Cheng Bang** A method to decide whether the degree of a map between Seifert manifolds is nonzero. (Chinese. English and Chinese summaries) **2001a:57030**
**Ikeda, Hiroshi[1]** (*with* Yamashita, Masakatsu; Yokoyama, Kazuo) Remodeling a DS-diagram into one with E-cycle. **2001e:57021**
**Im, Young Ho** (*with* Kim, Soo Hwan) An irreducible Heegaard diagram of the real projective 3-space $P^3$. (English summary) **2001c:57022**
**Jones, Matt** (*with* Scharlemann, Martin) How a strongly irreducible Heegaard splitting intersects a handlebody. (English summary) **2001m:57033**
**Kim, Soo Hwan** *see* **Im, Young Ho, 2001c:57022**
**Kitano, Teruaki** (*with* Takasawa, Mitsuhiko; Morifuji, Takayuki) $L^2$-torsion of 3-manifolds. (Japanese) (*see* **2001h:57002**)
**Kobayashi, Tsuyoshi** (*with* Saeki, Osamu) The Rubinstein-Scharlemann graphic of a 3-manifold as the discriminant set of a stable map. (English summary) **2001i:57026**
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**Schultens, Jennifer** Weakly reducible Heegaard splittings of Seifert fibered spaces. (English summary) **2001g:57039**
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**Takasawa, Mitsuhiko** *see* **Kitano, Teruaki et al., (2001h:57002)**
**Takashima, Shinsuke** The fundamental groups of Haken manifolds. (English summary)
**Takeuchi, Yoshihiro** (*with* Yokoyama, Misako) Waldhausen's classification theorem for 3-orbifolds. **2001h:57025**
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**Wu, Ying-Qing** *see* **Freedman, Michael Hartley et al., 2001i:57025** *and* **Gordon, Cameron McA., 2001j:57024**
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**Yamashita, Masakatsu** *see* **Ikeda, Hiroshi[1] et al., 2001e:57021**
**Yokoyama, Kazuo** *see* **Ikeda, Hiroshi[1] et al., 2001e:57021**
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**Boileau, Michel** Uniformisation en dimension trois. (French summary) [Uniformization in dimension three] **2001d:57017**
**Brenton, Lawrence** Homologically simple singularities. (English summary) **2001k:83089**
**Brittenham, Mark** (*with* Wu, Ying-Qing) The classification of exceptional Dehn surgeries on 2-bridge knots. (English summary) **2001m:57008**
**Brock, J. F.** Continuity of Thurston's length function. (English summary) **2001g:57028**
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**Cooper, Daryl** (*with* Long, D. D.) Virtually Haken Dehn-filling. (English summary) **2001a:57025**
**Corson, Jon M.** (*with* Trace, B.) Diagrammatically reducible complexes and Haken manifolds. (English summary) **2001f:57005**
**Crisp, John S.** The decomposition of 3-dimensional Poincaré complexes. (English summary) **2001g:57044**
**Cui, Ren Gang** *see* **Qiu, Rui Feng**
**Delman, Charles** (*with* Roberts, Rachel) Alternating knots satisfy Strong Property P. (English summary) **2001g:57009**
**Eudave-Muñoz, Mario** Essential meridional surfaces for tunnel number one knots. (English summary) **2001m:57011**
**Farb, Benson** (*with* Shalen, Peter B.) Lattice actions, 3-manifolds and homology. **2001b:57041**
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**Ferleger, S.** *see* **Burago, D. et al., 2001h:57017**
**Finkelstein, Elizabeth** (*with* Moriah, Yoav) Tubed incompressible surfaces in knot and link complements. (English summary) **2001b:57013**
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**Fukumoto, Yoshihiro** (*with* Furuta, Mikio) Homology 3-spheres bounding acyclic 4-manifolds. (English summary) **2001m:57063**
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**Furuta, Mikio** *see* **Fukumoto, Yoshihiro, 2001m:57063**
**Gabai, David** Essential laminations and Kneser normal form. **2001m:57025**
**Gini, Rosa** Cobordism of immersions of surfaces in non-orientable 3-manifolds. (English summary) **2001m:57054**
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**Hog-Angeloni, Cynthia** Detecting 3-manifold presentations. (English summary) **2001g:57001**
**Hoida, Phoebe** On the 1-bridge genus of small knots. (English summary) **2001d:57007**
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**Lasheras, Francisco F.** Universal covers and 3-manifolds. (English summary) **2001j:57004**
**Lawrence, Donald D.** 4-manifolds are quotients of $\mathbf{R}^4$. (English summary) **2001d:57020**
**Lee, Ronnie** *see* **Cappell, Sylvain et al., 2001i:57024**
**Le Tu Quoc Thang** (*with* Murakami, Hitoshi; Murakami, Jun; Ohtsuki, Tomotada) A three-manifold invariant via the Kontsevich integral. **2001b:57028**
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**Masters, Joseph D.** Length multiplicities of hyperbolic 3-manifolds. (English summary) **2001k:57019**
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**Miyazaki, Katura** (*with* Motegi, Kimihiko) Toroidal surgery on periodic knots. (English summary) **2001b:57019**
**Molnár, Emil** (*with* Prok, I.; Szirmai, J.) The Gieseking manifold and its surgery orbifolds. (English summary) **2001g:57030**
**Moriah, Yoav** *see* **Finkelstein, Elizabeth, 2001b:57013**
**Morimoto, Kanji** Tunnel number, connected sum and meridional essential surfaces. (English summary) **2001a:57015**
**Motegi, Kimihiko** *see* **Miyazaki, Katura, 2001b:57019**
**Mulazzani, Michele** A family of gems for Brieskorn 3-manifolds. (English summary) **2001c:57006**
**Murakami, Hitoshi** Quantum SU(2)-invariants of three-manifolds associated with the trivial first cohomology class modulo two. **2001b:57029**
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**Myers, John Robert** Splitting homomorphisms and the geometrization conjecture. (English summary) **2001m:57030**
— On covering translations and homeotopy groups of contractible open $n$-manifolds. (English summary) **2001a:57005**
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**Némethi, András** Casson invariant of cyclic coverings via eta-invariant and Dedekind sums. (English summary) **2001b:57030**
**Neumann-Coto, Max** Area minimizing surfaces in 3-manifolds. (English summary) **2001e:57015**
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**Petronio, Carlo** (*with* Weeks, Jeffrey R.) Partially flat ideal triangulations of cusped hyperbolic 3-manifolds. **2001g:57032**
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**Roushon, Sayed K.** $L$-theory of 3-manifolds with nonvanishing first Betti number. **2001b:57075**
**Ruini, Beatrice** *see* **Cavicchioli, Alberto et al., 2001b:57003**
**Sakata, Yoshiko** (*with* Ochiai, Mitsuyuki; Yeun, Cho Il) Computational decomposition of homeomorphisms of planar Heegaard diagrams. (English summary) **2001j:57012**
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**Stitz, Carl J.** A combinatorial approach to linking numbers in rational homology spheres. (English summary) **2001a:57018**
**Swarup, Gadde A.** Proof of a weak hyperbolization theorem. (English summary) **2001k:57022**
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**Wu, Ying-Qing** *see* **Gordon, Cameron McA., 2001b:57033** *and* **Brittenham, Mark, 2001m:57008**
**Yeun, Cho Il** *see* **Sakata, Yoshiko et al., 2001j:57012**
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**Zimmermann, Bruno** Finite maximal orientation reversing group actions on handlebodies and 3-manifolds. (English summary) **2001b:57042**
— *see also* **Mecchia, Mattia, 2001b:57034**

## 57N13 Topology of $E^4$, 4-manifolds [see also 14Jxx, 32Jxx]

**Bestvina, Mladen** (*with* Daverman, Robert J.; Venema, G. A.; Walsh, J. J.) A 4-dimensional 1-LCC shrinking theorem. (English summary) **2001m:57035**
**Cavicchioli, Alberto** Homotopy, cobordism and decompositions of 4-manifolds. (Italian. English summary) **2001e:57024**
**Daverman, Robert J.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Endo, Hisaaki** Meyer's signature cocycle and hyperelliptic fibrations. (English summary) **2001b:57047**
**Hillman, Jonathan A.** Virtual surface bundle groups. (English summary) **2001i:57029**
**Karasev, A. V.** An infinite-dimensional 4-manifold of finite cohomological dimension with the continuum hypothesis. (Russian. Russian summary) **2001a:57033**
**Kawauchi, Akio** Algebraic characterization of an exact 4-manifold with infinite cyclic first homology. (English summary) **2001j:57027**
**Korkmaz, Mustafa** Noncomplex smooth 4-manifolds with Lefschetz fibrations. **2001m:57036**
**Krushkal, Vyacheslav S.** Exponential separation in 4-manifolds. (English summary) **2001i:57030**
— (*with* Quinn, Frank) Subexponential groups in 4-manifold topology. (English summary) **2001i:57031**
**Lee, Ronnie** (*with* Wilczyński, Dariusz M.) Genus inequalities and four-dimensional surgery. (English summary) **2001j:57028**
**Quinn, Frank** Problems in 4-dimensional topology. (*see* **2001i:57001**)
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**Ratcliffe, John G.** (*with* Tschantz, Steven T.) The volume spectrum of hyperbolic 4-manifolds. (English summary) **2001b:57048**
**Roushon, Sayed K.** Finiteness of simple homotopy types up to $s$-cobordism of aspherical 4-manifolds. **2001m:57037**
**Stipsicz, András I.** Topology of four-dimensional manifolds—an overview. (Hungarian. English summary)
**Tschantz, Steven T.** *see* **Ratcliffe, John G., 2001b:57048**
**Venema, G. A.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Walsh, J. J.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Wilczyński, Dariusz M.** *see* **Lee, Ronnie, 2001j:57028**

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**Casali, Maria Rita** From framed links to crystallizations of bounded 4-manifolds. (English summary) **2001a:57007**
**Cobb, Robin J.** Infra-solvmanifolds of dimension four. **2001g:57029**
**Korkmaz, Mustafa** (*with* Ozbagci, Burak) Minimal number of singular fibers in a Lefschetz fibration. (English summary) **2001h:57019**
**Krushkal, Vyacheslav S.** Embedding obstructions and 4-dimensional thickenings of 2-complexes. (English summary) **2001b:57006**
**Lawrence, Donald D.** 4-manifolds are quotients of $\mathbf{R}^4$. (English summary) **2001d:57020**
**Lee, Ronnie** (*with* Li, Tian-Jun) Intersection forms of non-spin four manifolds. **2001m:57027**
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**McCarthy, John D.** On the asphericity of a symplectic $M^3 \times S^1$. (English summary) **2001c:57024**
**Myers, John Robert** On covering translations and homeotopy groups of contractible open $n$-manifolds. (English summary) **2001a:57005**
**Ozbagci, Burak** *see* **Korkmaz, Mustafa, 2001b:57019**
**Ruberman, Daniel** A polynomial invariant of diffeomorphisms of 4-manifolds. (English summary) **2001b:57073**
**Saveliev, Nikolai** ★ Lectures on the topology of 3-manifolds. (English summary) **2001h:57024**
**Stipsicz, András I.** Simply connected symplectic 4-manifolds with positive signature. **2001e:57029**
— (*with* Szabó, Zoltán) Gluing 4-manifolds along $\Sigma(2, 3, 11)$. (English summary) **2001h:57040**
**Stong, Richard** (*with* Wang, Zhenghan) Self-homeomorphisms of 4-manifolds with fundamental group Z. (English summary) **2001d:57024**
**Szabó, Zoltán** *see* **Stipsicz, András I., 2001h:57040**

**Wang, Zhenghan** *see* **Stong, Richard, 2001d:57024**

## 57N15 Topology of $E^n$, $n$-manifolds $(4 < n < \infty)$

**Daverman, Robert J.** (*with* Im, Young Ho; Kim, Yongkuk) Products of Hopfian manifolds and codimension-2 fibrators. (English summary) **2001b:57049**
**Farrell, F. T.** Fibered representations, an open condition. (English summary) **2001c:57025**
**Guilbault, Craig R.** Manifolds with non-stable fundamental groups at infinity. (English summary) **2001i:57032**
**Im, Young Ho** *see* **Daverman, Robert J. et al., 2001b:57049**
**Kim, Yongkuk** Manifolds with hyper-Hopfian fundamental group as codimension-2 fibrators. (English summary) **2001c:57026**
— *see also* **Daverman, Robert J. et al., 2001b:57049**
**Mio, Washington** Homology manifolds. **2001d:57023**

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**Ancel, Fredric D.** (*with* Nadler, Sam B., Jr.) Cones that are cells, and an application to hyperspaces. (English summary) **2001c:54005**
**Gartside, P. M.** (*with* Mohamad, Abdul M.) Cleavability of manifolds. (English summary) **2001g:54010**
**Gauld, David** Covering properties and metrisation of manifolds. (English summary) **2001j:54018**
**Mohamad, Abdul M.** *see* **Gartside, P. M., 2001g:54010**
**Myers, John Robert** On covering translations and homeotopy groups of contractible open $n$-manifolds. (English summary) **2001a:57005**
**Nadler, Sam B., Jr.** *see* **Ancel, Fredric D., 2001c:54005**
**Pankov, M. A.** Projections of $k$-dimensional subsets of $\mathbf{R}^n$ onto $k$-dimensional planes and irregular subsets of the Grassmanian manifolds. (English summary) **2001j:54041**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) On contractible $n$-dimensional compacta, non-embeddable into $\mathbf{R}^{2n}$. (English summary) **2001k:55003**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001k:55003**

## 57N16 Geometric structures on manifolds [see also 57M50]

**Benoist, Yves** Tores affines. (English summary) [Affine tori] **2001k:57025**
**Choi, Suhyoung** Real projective structures and radiant affine structures on manifolds. (English summary) **2001j:57029**
— The convex and concave decomposition of manifolds with real projective structures. (English and French summaries) **2001j:57030**

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**Benedetti, Riccardo** (*with* Guadagnini, Enore) Geometric cone surfaces and $(2+1)$-gravity coupled to particles. (English summary) **2001g:83094**
**Goldman, William M.** (*with* Margulis, Grigorii A.) Flat Lorentz 3-manifolds and cocompact Fuchsian groups. **2001m:53124**
**Guadagnini, Enore** *see* **Benedetti, Riccardo, 2001g:83094**
**Margulis, Grigorii A.** *see* **Goldman, William M., 2001m:53124**

## 57N17 Topology of topological vector spaces

**Banakh, T. O.** (*with* Dobrowolski, Tadeusz; Plichko, Anatolii) The topological and Borel classification of operator images. (English summary) **2001f:57023**
— Operator images homeomorphic to $\Sigma^\omega$. (English summary) **2001f:57024**
— Topological classification of strong duals to nuclear (LF)-spaces. (English summary) **2001e:57025**
**Dobrowolski, Tadeusz** *see* **Banakh, T. O. et al., 2001f:57023**
**Plichko, Anatolii** *see* **Banakh, T. O. et al., 2001f:57023**
**Shkarin, Stanislav A.** An infinite-dimensional separable pre-Hilbert space that is not homeomorphic to a closed hyperplane of it. (Russian. Russian summary) **2001g:57040**

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**Trif, Tiberiu** *see* **Breckner, Wolfgang W., 2001j:47091**

## 57N20 Topology of infinite-dimensional manifolds [see also 58Bxx]

**Antonyan, S. A.** The topology of the Banach-Mazur compactum. (English summary) **2001k:57026**
**Banakh, T. O.** On hyperspaces and homeomorphism groups homeomorphic to products of absorbing sets and $\mathbf{R}^\infty$. (English summary) **2001k:57027**
— The topological classification of weak unit balls of Banach spaces. (English summary) **2001f:57022**
**Chigogidze, Alex** (*with* Fedorchuk, V. V.) Menger (Nöbeling) manifolds versus Hilbert cube (space) manifolds—a categorical comparison. (English summary) **2001a:57034**
**Fedorchuk, V. V.** *see* **Chigogidze, Alex, 2001a:57034**
**Iwamoto, Yutaka** (*with* Sakai, Katsuro) A mapping theorem for $Q$-manifolds and $\mu^{n+1}$-manifolds. (English summary)
**Sakai, Katsuro** The completions of metric ANR's and homotopy dense subsets. (English summary) **2001f:57025**
— (*with* Uehara, Shigenori) Spaces of upper semi-continuous multi-valued functions on separable metric spaces. (English summary) **2001k:57028**
— *see also* **Iwamoto, Yutaka**
**Uehara, Shigenori** *see* **Sakai, Katsuro, 2001k:57028**

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**Banakh, T. O.** (*with* Kawamura, Kazuhiro; Sakai, Katsuro) The direct limits of the Banach-Mazur compacta. (English summary) **2001j:46006**
— (*with* Dobrowolski, Tadeusz; Plichko, Anatolii) The topological and Borel classification of operator images. (English summary) **2001f:57023**
— (*with* Cauty, Robert) On universality of countable and weak products of sigma hereditarily disconnected spaces. (English summary) **2001m:54004**
**Cauty, Robert** *see* **Banakh, T. O., 2001m:54004**
**Chigogidze, Alex** On spaces Baire isomorphic to the powers of the real line. (English summary) **2001i:54030**
**Dobrowolski, Tadeusz** *see* **Banakh, T. O. et al., 2001f:57023**
**Ferry, Steven C.** Stable compactifications of polyhedra. **2001k:57030**
**Illanes, Alejandro** (*with* Macías Alvarez, Sergio; Nadler, Sam B., Jr.) Symmetric products and $Q$-manifolds. (English summary) **2001b:54011**
**Kato, Hisao** (*with* Kawamura, Kazuhiro; Tuncali, H. M.; Tymchatyn, E. D.) Measures and topological dynamics on Menger manifolds. (English summary) **2001j:37036**
**Kawamura, Kazuhiro** *see* **Kato, Hisao et al., 2001j:37036** *and* **Banakh, T. O. et al., 2001j:46006**
**Kulinich, E. V.** On topologically equivalent Morse functions on surfaces. (English summary) **2001d:57028**
**Macías Alvarez, Sergio** *see* **Illanes, Alejandro et al., 2001b:54011**
**Nadler, Sam B., Jr.** *see* **Illanes, Alejandro et al., 2001b:54011**
**Pentsak, Eugen** (*with* Zarichnyĭ, M. M.) On strongly universal $k_\omega$-spaces related to transfinite inductive and cohomological dimension. (English summary) **2001g:54039**
**Plichko, Anatolii** *see* **Banakh, T. O. et al., 2001f:57023**
**Prishlyak, A. O.** On topologically equivalent Morse functions on 3-manifold. (English summary) **2001d:57029**
**Sakai, Katsuro** *see* **Banakh, T. O. et al., 2001j:46006**
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**Tymchatyn, E. D.** *see* **Kato, Hisao et al., 2001j:37036**
**Yagasaki, Tatsuhiko** Spaces of embeddings of compact polyhedra into 2-manifolds. (English summary) **2001k:57024**
— Homotopy types of homeomorphism groups of noncompact 2-manifolds. (English summary) **2001j:57023**
**Zarichnyĭ, M. M.** Strongly countable-dimensional resolvents of sigma-compact groups. (Russian. English and Russian summaries) **2001h:54066**
— *see also* **Pentsak, Eugen, 2001g:54039**

## 57N25 Shapes [see also 54C56, 55P55, 55Q07]

**Chinen, Naotsugu** Manifolds with finite cyclic fundamental groups and codimension 2 fibrators. (English summary) **2001b:57050**

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**Bestvina, Mladen** (*with* Daverman, Robert J.; Venema, G. A.; Walsh, J. J.) A 4-dimensional 1-LCC shrinking theorem. (English summary) **2001m:57035**
**Daverman, Robert J.** (*with* Im, Young Ho; Kim, Yongkuk) Products of Hopfian manifolds and codimension-2 fibrators. (English summary) **2001b:57049**
— *see also* **Bestvina, Mladen et al., 2001m:57035**
**Im, Young Ho** *see* **Daverman, Robert J. et al., 2001b:57049**
**Iwamoto, Yutaka** (*with* Sakai, Katsuro) Strong $n$-shape theory. (*see* **2001a:54001**)
**Kim, Yongkuk** *see* **Daverman, Robert J. et al., 2001b:57049**
**Sakai, Katsuro** *see* **Iwamoto, Yutaka, (2001a:54001)**
**Venema, G. A.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Walsh, J. J.** *see* **Bestvina, Mladen et al., 2001m:57035**

## 57N35 Embeddings and immersions

**Cervone, Davide P.** A tight polyhedral immersion in three-space of the real projective plane with one handle. (English summary) **2001m:57038**
**Goodsell, Troy L.** (*with* Wright, David G.) The visible set of a compactum in $\mathbb{R}^n$. (English summary) **2001j:57031**
**Januszkiewicz, Tadeusz** (*with* Świątkowski, Jacek) Finite type invariants of generic immersions of $M^n$ into $\mathbf{R}^{2n}$ are trivial. **2001b:57051**
**Martio, Olli** (*with* Ryazanov, Vladimir I.) On Chernavskiĭ's theorem. (Russian) **2001c:57027**
**Nowik, Tahl** Quadruple points of regular homotopies of surfaces in 3-manifolds. (English summary) **2001i:57033**
**Ryazanov, Vladimir I.** *see* **Martio, Olli, 2001c:57027**
**Świątkowski, Jacek** *see* **Januszkiewicz, Tadeusz, 2001b:57051**
**Wright, David G.** *see* **Goodsell, Troy L., 2001j:57031**

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**Akhmet'ev, P. M.** Embeddings of compacta, stable homotopy groups of spheres, and singularity theory. (Russian. Russian summary) **2001h:55017**
**Arnol'd, V. I.** Topological problems in wave propagation theory and topological economy principle in algebraic geometry. (English summary) **2001e:01027**
**Fang, Fuquan** Smooth structures on $\Sigma \times \mathbf{R}$. (English summary) **2001a:57044**
**Green, Linda E.** Incompressible surfaces in handlebodies. (English summary) **2001b:57043**
**Lee, Ronnie** (*with* Wilczyński, Dariusz M.) Genus inequalities and four-dimensional surgery. (English summary) **2001j:57028**
**Luukkainen, Jouni** Lipschitz and quasiconformal approximation of homeomorphism pairs. (English summary) **2001k:57034**
**Neumann-Coto, Max** Area minimizing surfaces in 3-manifolds. (English summary) **2001e:57015**
**Polulyakh, E. A.** On imbedding of closed 2-dimensional disks into $\mathbf{R}^2$. (English summary) **2001m:54037**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) New results on embeddings of polyhedra and manifolds into Euclidean spaces. (Russian. Russian summary) **2001c:57028**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001c:57028**
**Takase, Masamichi** Embeddings of $Z_2$-homology 3-spheres in $\mathbf{R}^5$ up to regular homotopy. (English summary) **2001c:57030**
**Wilczyński, Dariusz M.** *see* **Lee, Ronnie, 2001j:57028**

**Yagasaki, Tatsuhiko** Spaces of embeddings of compact polyhedra into 2-manifolds. (English summary) **2001k:57024**

## 57N37 Isotopy and pseudo-isotopy

**Berkove, Ethan** (*with* Farrell, F. T.; Juan-Pineda, D.; Pearson, Kimberly) The Farrell-Jones isomorphism conjecture for finite covolume hyperbolic actions and the algebraic $K$-theory of Bianchi groups. (English summary) **2001b:57052**
**Farrell, F. T.** *see* **Berkove, Ethan et al., 2001b:57052**
**Hughes, C. Bruce** (*with* Taylor, Laurence R.; Williams, Bruce) Controlled homeomorphisms over nonpositively curved manifolds. (English summary) **2001g:57041**
**Juan-Pineda, D.** *see* **Berkove, Ethan et al., 2001b:57052**
**Pearson, Kimberly** *see* **Berkove, Ethan et al., 2001b:57052**
**Sprows, David J.** Local subhomeotopy groups of bounded surfaces. (English summary) **2001g:57042**
**Stong, Richard** (*with* Wang, Zhenghan) Self-homeomorphisms of 4-manifolds with fundamental group Z. (English summary) **2001d:57024**
**Taylor, Laurence R.** *see* **Hughes, C. Bruce et al., 2001g:57041**
**Wang, Zhenghan** *see* **Stong, Richard, 2001d:57024**
**Williams, Bruce** *see* **Hughes, C. Bruce et al., 2001g:57041**

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**Goodsell, Troy L.** (*with* Wright, David G.) The visible set of a compactum in $\mathbb{R}^n$. (English summary) **2001j:57031**
**Korkmaz, Mustafa** (*with* McCarthy, John D.) Surface mapping class groups are ultrahopfian. **2001c:57021**
**McCarthy, John D.** On the first cohomology group of cofinite subgroups in surface mapping class groups. (English summary) **2001m:57029**
— *see also* **Korkmaz, Mustafa, 2001c:57021**
**Myers, John Robert** On covering translations and homeotopy groups of contractible open $n$-manifolds. (English summary) **2001a:57005**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) New results on embeddings of polyhedra and manifolds into Euclidean spaces. (Russian. Russian summary) **2001c:57028**
**Roushon, Sayed K.** Vanishing structure set of Haken 3-manifolds. (English summary) **2001m:57061**
— Surgery groups of submanifolds of $S^3$. (English summary) **2001b:19002**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001c:57028**
**Wright, David G.** *see* **Goodsell, Troy L., 2001j:57031**

## 57N40 Neighborhoods of submanifolds

**Hughes, C. Bruce** (*with* Taylor, Laurence R.; Weinberger, Shmuel; Williams, Bruce) Neighborhoods in stratified spaces with two strata. (English summary) **2001e:57026**
**Taylor, Laurence R.** *see* **Hughes, C. Bruce et al., 2001e:57026**
**Weinberger, Shmuel** *see* **Hughes, C. Bruce et al., 2001e:57026**
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**Krushkal, Vyacheslav S.** Embedding obstructions and 4-dimensional thickenings of 2-complexes. (English summary) **2001b:57006**

## 57N45 Flatness and tameness

Items with secondary classifications in 57N45

**Martio, Olli** (*with* Ryazanov, Vladimir I.) On Chernavskiĭ's theorem. (Russian) **2001c:57027**
**Ryazanov, Vladimir I.** *see* **Martio, Olli, 2001c:57027**

## 57N60 Cellularity

Items with secondary classifications in 57N60

**Félix, Yves** (*with* Thomas, Jean-Claude) Rational Betti numbers of configuration spaces. (English summary) **2001g:57054**
**Thomas, Jean-Claude** *see* **Félix, Yves, 2001g:57054**

## 57N65 Algebraic topology of manifolds

**Ivanov, O. A.** On the intersection form of a manifold obtained by glueing several manifolds. (Russian. English and Russian summaries) **2001m:57039**

Items with secondary classifications in 57N65

**Hoster, M.** (*with* Kotschick, D.) On the simplicial volumes of fiber bundles. (English summary) **2001g:55012**
**Imbert, Michel** Fundamental groups of fat-graphs. (English summary) **2001j:05047**
**Kotschick, D.** *see* **Hoster, M., 2001g:55012**
**Lambrechts, Pascal** Cochain model for thickenings and its application to rational LS-category. (English summary) **2001m:55009**
**Roushon, Sayed K.** Finiteness of simple homotopy types up to $s$-cobordism of aspherical 4-manifolds. **2001m:57037**
**Scharlau, Winfried** On the history of the algebraic theory of quadratic forms. **2001k:11056**

## 57N70 Cobordism and concordance

Items with secondary classifications in 57N70

**de Campos, José Eduardo Prado Pires** Boundary string links. (English summary) **2001c:57009**
**Das, Ashish Kumar** *see* **Khare, S. S., 2001i:57042**
**Gadgil, Siddhartha** Cobordisms and Reidemeister torsions of homotopy lens spaces. (English summary) **2001k:57032**
**Khare, S. S.** (*with* Das, Ashish Kumar) Which Milnor manifolds bound? (English summary) **2001i:57042**
**Letsche, Carl F.** An obstruction to slicing knots using the eta invariant. **2001b:57017**
**Livingston, Charles** Order 2 algebraically slice knots. (English summary) **2001a:57014**
**Mellor, Blake** Finite type link concordance invariants. (English summary) **2001k:57014**

## 57N80 Stratifications

**Popper, Raimund** Cohomogeneity one $G$-pseudomanifolds. (English summary) **2001a:57035**

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**Hughes, C. Bruce** (*with* Taylor, Laurence R.; Weinberger, Shmuel; Williams, Bruce) Neighborhoods in stratified spaces with two strata. (English summary) **2001e:57026**
**Shiota, Masahiro** Thom's conjecture on triangulations of maps. **2001b:57055**
**Taylor, Laurence R.** *see* **Hughes, C. Bruce et al., 2001e:57026**
**Weinberger, Shmuel** *see* **Hughes, C. Bruce et al., 2001e:57026**
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**Ageev, Sergei M.** (*with* Repovš, Dušan D.) A new construction of semi-free actions on Menger manifolds. (English summary) **2001h:54031**
**Chatyrko, V. A.** On locally $r$-incomparable families of infinite-dimensional Cantor manifolds. (English summary) **2001j:54040**
**El-Ghoul, M.** (*with* Elzohny, Habiba A.; Radwan, S.) Deformation of some fuzzy manifolds and its folding. (English summary)
**Elzohny, Habiba A.** *see* **El-Ghoul, M. et al.**
**Kato, Hisao** (*with* Levin, M. A.) Open maps on manifolds which do not admit disjoint closed subsets intersecting each fiber. (English summary) **2001b:54017**
**Levin, M. A.** *see* **Kato, Hisao, 2001b:54017**
**Radwan, S.** *see* **El-Ghoul, M. et al.**
**Repovš, Dušan D.** *see* **Ageev, Sergei M., 2001h:54031**

# 57Pxx Generalized manifolds [see also 18F15]

## 57P05 Local properties of generalized manifolds

**Johnston, Heather** (*with* Ranicki, Andrew) Homology manifold bordism. (English summary) **2001g:57043**
**Ranicki, Andrew** *see* **Johnston, Heather, 2001g:57043**

Items with secondary classifications in 57P05

**Mio, Washington** Homology manifolds. **2001d:57023**

## 57P10 Poincaré duality spaces

**Crisp, John S.** The decomposition of 3-dimensional Poincaré complexes. (English summary) **2001g:57044**
**Klein, John R.** Poincaré embeddings of spheres. (English summary) **2001g:57045**
— Poincaré duality spaces. **2001b:57053**
**Mishchenko, A. S.** The local combinatorial Hirzebruch formula. (Russian) **2001a:57036**

Items with secondary classifications in 57P10

**Andrade, Maria Gorete Carreira** (*with* Daccach, Janey Antonio; Fanti, Erminia de Lourdes Campello) On relative cohomology of groups. (English and Portuguese summaries) **2001a:20089**
**Charney, Ruth** (*with* Davis, Michael Walter) When is a Coxeter system determined by its Coxeter group? **2001i:20078**
**Daccach, Janey Antonio** *see* **Andrade, Maria Gorete Carreira et al., 2001a:20089**
**Davis, Michael Walter** Poincaré duality groups. **2001b:57001**
— *see also* **Charney, Ruth, 2001i:20078**
**Fanti, Erminia de Lourdes Campello** *see* **Andrade, Maria Gorete Carreira et al., 2001a:20089**
**Johnson, F. E. A.** Stable modules and the structure of Poincaré 3-complexes. (English summary) **2001e:57001**
**Klein, John R.** The dualizing spectrum of a topological group. (English summary) **2001m:55037**
**Mio, Washington** Homology manifolds. **2001d:57023**

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**Daverman, Robert J.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Venema, G. A.** *see* **Bestvina, Mladen et al., 2001m:57035**
**Walsh, J. J.** *see* **Bestvina, Mladen et al., 2001m:57035**

# 57Qxx PL-topology

## 57Q05 General topology of complexes

**Barcelo, Hélène** (*with* Kramer, Xenia; Laubenbacher, Reinhard C.; Weaver, Christopher) Foundations of a connectivity theory for simplicial complexes. (English summary) **2001k:57029**
**Dey, Tamal K.** (*with* Edelsbrunner, Herbert; Guha, Sumanta; Nekhayev, Dmitry V.) Topology preserving edge contraction. (English summary) **2001f:57026**
**Eckmann, Beno** Introduction to $l_2$-methods in topology: reduced $l_2$-homology, harmonic chains, $l_2$-Betti numbers. **2001b:57054**
**Edelsbrunner, Herbert** *see* **Dey, Tamal K. et al., 2001f:57026**
**Guha, Sumanta** *see* **Dey, Tamal K. et al., 2001f:57026**
**Kramer, Xenia** *see* **Barcelo, Hélène et al., 2001k:57029**
**Laubenbacher, Reinhard C.** *see* **Barcelo, Hélène et al., 2001k:57029**
**(Mislin, Guido)** *see* **Eckmann, Beno, 2001b:57054**
**Nekhayev, Dmitry V.** *see* **Dey, Tamal K. et al., 2001f:57026**
**Weaver, Christopher** *see* **Barcelo, Hélène et al., 2001k:57029**

Items with secondary classifications in 57Q05

**Azaola, M.** (*with* Santos, Francisco) The graph of triangulations of a point configuration with $d+4$ vertices is 3-connected. (English summary) **2001b:05126**
**Bukhshtaber, V. M.** (*with* Panov, Taras E.) Moment-angle complexes and the combinatorics of simplicial manifolds. (Russian) **2001d:52025**
**Červar, Branko** *see* **Uglešić, Nikica, 2001b:54014**
**Chigogidze, Alex** (*with* Fedorchuk, V. V.) Menger (Nöbeling) manifolds versus Hilbert cube (space) manifolds—a categorical comparison. (English summary) **2001a:57034**
**El-Kholy, E. M.** (*with* Shahin, R. M.) Cellular folding. (English summary) **2001e:55005**
**Fedorchuk, V. V.** *see* **Chigogidze, Alex, 2001a:57034**
**Mutlu, Ali** Join for (augmented) simplicial group. (English summary) **2001e:55017**
**Panov, Taras E.** *see* **Bukhshtaber, V. M., 2001d:52025**
**Prishlyak, A. O.** On one-dimensional subcomplexes of two-dimensional manifolds. (Russian) **2001b:57008**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) Cell-like resolutions of polyhedra by special ones. (English summary) **2001k:57007**
**Santos, Francisco** *see* **Azaola, M., 2001b:05126**
**Shahin, R. M.** *see* **El-Kholy, E. M., 2001e:55005**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001k:57007**
**Uglešić, Nikica** (*with* Červar, Branko) Surjective simplicial inverse systems. (English summary) **2001b:54014**

## 57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

**Ferry, Steven C.** Stable compactifications of polyhedra. **2001k:57030**
**Nicolaescu, Liviu I.** On the Reidemeister torsion of rational homology spheres. (English summary) **2001m:57040**
**Pazhitnov, Andrei Vladimirovich** The simple homotopy type of the Novikov complex, and the Lefschetz $\zeta$-function of the gradient flow. (Russian) **2001m:57041**
**Pedersen, Erik Kjær** Controlled algebraic $K$-theory, a survey. **2001i:57034**
**(Schlenk, Felix)** *see* **Turaev, Vladimir, 2001m:57042**
**Turaev, Vladimir** ★ Introduction to combinatorial torsions. (English summary) **2001m:57042**

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**Burghelea, Dan** (*with* Friedlander, Leonid; Kappeler, Thomas) Witten deformation of the analytic torsion and the Reidemeister torsion. **2001c:58031**
**Clair, Bryan** Residual amenability and the approximation of $L^2$-invariants. **2001b:58053**
**Dai, Xianzhe** (*with* Fang, Hao[3]) Analytic torsion and R-torsion for manifolds with boundary. (English summary) **2001j:58057**
**Donaldson, S. K.** Topological field theories and formulae of Casson and Meng-Taubes. (English summary) **2001f:57033**
**Fang, Hao[3]** *see* **Dai, Xianzhe, 2001j:58057**
**Farber, Michael S.** Morse-Novikov critical point theory, Cohn localization and Dirichlet units. (English summary) **2001g:57065**
**Fel'shtyn, A. L.** (*with* Hill, Richard Michael) Dynamical zeta functions, congruences in Nielsen theory and Reidemeister torsion. (English summary) **2001h:37047**
— (*with* Sánchez-Morgado, Héctor) Reidemeister torsion and integrable Hamiltonian systems. (English summary) **2001j:37104**
**Friedlander, Leonid** *see* **Burghelea, Dan et al., 2001c:58031**
**Gadgil, Siddhartha** Cobordisms and Reidemeister torsions of homotopy lens spaces. (English summary) **2001k:57032**
**Geoghegan, Ross** (*with* Nicas, Andrew; Schütz, Dirk) Obstructions to homotopy invariance in parametrized fixed point theory. (English summary) **2001f:55003**
**Hill, Richard Michael** *see* **Fel'shtyn, A. L., 2001h:37047**
**Illman, Sören** Existence and uniqueness of equivariant triangulations of smooth proper $G$-manifolds with some applications to equivariant Whitehead torsion. **2001j:57032**
**Kappeler, Thomas** *see* **Burghelea, Dan et al., 2001c:58031**
**Nicas, Andrew** *see* **Geoghegan, Ross et al., 2001f:55003**
**Roushon, Sayed K.** Finiteness of simple homotopy types up to $s$-cobordism of aspherical 4-manifolds. **2001m:57037**
**Rutter, John W.** Homotopy self-equivalences 1988–1999. (English summary) **2001m:55001**
**Sánchez-Morgado, Héctor** *see* **Fel'shtyn, A. L., 2001j:37104**
**Schütz, Dirk** *see* **Geoghegan, Ross et al., 2001f:55003**
**Ushijima, Akira** A unified viewpoint about geometric objects in hyperbolic space and the generalized tilt formula. (Japanese summary) (*see* **2001f:57001**)

## 57Q12 Wall finiteness obstruction for CW-complexes

Items with secondary classifications in 57Q12

**Guilbault, Craig R.** Manifolds with non-stable fundamental groups at infinity. (English summary) **2001i:57032**
**Notbohm, D.** The finiteness obstruction for loop spaces. (English summary) **2001e:55012**

## 57Q15 Triangulating manifolds

**Björner, Anders** (*with* Lutz, Frank H.) Simplicial manifolds, bistellar flips and a 16-vertex triangulation of the Poincaré homology 3-sphere. (English summary) **2001h:57026**
**Funar, Louis** Cubulations, immersions, mappability and a problem of Habegger. (English and French summaries) **2001f:57027**
**Grasselli, Luigi** (*with* Mulazzani, Michele; Nedela, Roman) 2-symmetric transformations for 3-manifolds of genus 2. (English summary) **2001g:57046**
**Illman, Sören** Existence and uniqueness of equivariant triangulations of smooth proper $G$-manifolds with some applications to equivariant Whitehead torsion. **2001j:57032**
**Lassmann, Gunter** (*with* Sparla, Eric) A classification of centrally-symmetric and cyclic 12-vertex triangulations of $S^2 \times S^2$. (English summary) **2001i:57035**
**Lutz, Frank H.** *see* **Björner, Anders, 2001h:57026**
**Madahar, K. V.** (*with* Sarkaria, Karanbir Singh) A minimal triangulation of the Hopf map and its application. (English summary) **2001k:57031**
**Mulazzani, Michele** *see* **Grasselli, Luigi et al., 2001g:57046**
**Nakamoto, Atsuhiro** *see* **Negami, Seiya et al., 2001a:57037**
**Nedela, Roman** *see* **Grasselli, Luigi et al., 2001g:57046**
**Negami, Seiya** (*with* Nakamoto, Atsuhiro; Tanuma, Takayuki) Re-embedding structures of triangulations on closed surfaces. (English summary) **2001a:57037**
**Sarkaria, Karanbir Singh** *see* **Madahar, K. V., 2001k:57031**
**Sparla, Eric** *see* **Lassmann, Gunter, 2001i:57035**
**Tanuma, Takayuki** *see* **Negami, Seiya et al., 2001a:57037**

Items with secondary classifications in 57Q15

**Below, A.** (*with* Brehm, U.; De Loera, Jesús A.; Richter-Gebert, J.) Minimal simplicial dissections and triangulations of convex 3-polytopes. (English summary) **2001g:52021**
**Bracho, Javier** (*with* Strausz, Ricardo) Nonisomorphic complete triangulations of a surface. (English summary) **2001k:05058**
**Brehm, U.** *see* **Below, A. et al., 2001g:52021**
**Charitos, Charalambos** (*with* Tsapogas, Georgios) Closed geodesics on 2-dimensional $\chi$-geometric polyhedra. (English summary) **2001a:52011**
**Cortés, Carmen** (*with* Nakamoto, Atsuhiro) Diagonal flips in outer-Klein-bottle triangulations. (English summary) **2001d:57004**
**Dartois, G.** (*with* Grigis, A.) Separating maps of the lattice $E_8$ and triangulations of the eight-dimensional torus. (English summary) **2001c:52011**
**De Loera, Jesús A.** *see* **Below, A. et al., 2001g:52021**
**Grigis, A.** *see* **Dartois, G., 2001c:52011**
**Hachimori, Masahiro** (*with* Ziegler, Günter M.) Decompositons of simplicial balls and spheres with knots consisting of few edges. (English summary) **2001m:52017**
**Kühnel, Wolfgang** (*with* Lutz, Frank H.) A census of tight triangulations. (English summary) **2001h:52009**
**Kuiper, N. H.** A short history of triangulation and related matters. **2001c:57001**
**Lutz, Frank H.** *see* **Kühnel, Wolfgang, 2001h:52009**
**Mulazzani, Michele** A family of gems for Brieskorn 3-manifolds. (English summary) **2001c:57006**
**Nakamoto, Atsuhiro** *see* **Cortés, Carmen, 2001d:57004**
**Petronio, Carlo** Ideal triangulations of hyperbolic 3-manifolds. (Italian summary) **2001g:57031**
— (*with* Porti, Joan) Negatively oriented ideal triangulations and a proof of Thurston's hyperbolic Dehn filling theorem. (English summary) **2001c:57017**
**Porti, Joan** *see* **Petronio, Carlo, 2001c:57017**
**Richter-Gebert, J.** *see* **Below, A. et al., 2001g:52021**
**Strausz, Ricardo** *see* **Bracho, Javier, 2001k:05058**
**Tsapogas, Georgios** *see* **Charitos, Charalambos, 2001a:52011**
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## 57Q20 Cobordism

**Gadgil, Siddhartha** Cobordisms and Reidemeister torsions of homotopy lens spaces. (English summary) **2001k:57032**

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**Dragotti, S.** (*with* Magro, G.; Parlato, L.) On the groups $\Theta_n^7$ of a sphere. (Italian summary) **2001h:55016**
**Livingston, Charles** Order 2 algebraically slice knots. (English summary) **2001a:57014**
**Magro, G.** *see* **Dragotti, S. et al., 2001h:55016**
**Parlato, L.** *see* **Dragotti, S. et al., 2001h:55016**

## 57Q25 Comparison of PL-structures: classification, Hauptvermutung

**Shiota, Masahiro** Thom's conjecture on triangulations of maps. **2001b:57055**

Items with secondary classifications in 57Q25

**Björner, Anders** (*with* Lutz, Frank H.) Simplicial manifolds, bistellar flips and a 16-vertex triangulation of the Poincaré homology 3-sphere. (English summary) **2001h:57026**
**Lutz, Frank H.** *see* **Björner, Anders, 2001h:57026**

## 57Q35 Embeddings and immersions

**Repovš, Dušan D.** (*with* Skopenkov, A. B.) New results on embeddings of polyhedra and manifolds into Euclidean spaces. (Russian. Russian summary) **2001c:57028**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001c:57028**

Items with secondary classifications in 57Q35

**Habiro, Kazuo** (*with* Shima, Akiko) Finite type invariants of ribbon 2-knots. II. (English summary) **2001m:57044**

**Kamada, Seiichi** (*with* Kawauchi, Akio; Matumoto, Takao) Combinatorial moves on ambient isotopic submanifolds in a manifold. (English summary) **2001m:57043**
**Kawauchi, Akio** *see* **Kamada, Seiichi et al., 2001m:57043**
**Klein, John R.** Poincaré duality spaces. **2001b:57053**
**Krushkal, Vyacheslav S.** Embedding obstructions and 4-dimensional thickenings of 2-complexes. (English summary) **2001b:57006**
**Matumoto, Takao** *see* **Kamada, Seiichi et al., 2001m:57043**
**Shima, Akiko** *see* **Habiro, Kazuo, 2001m:57044**
**Taniyama, Kouki** Higher dimensional links in a simplicial complex embedded in a sphere. (English summary) **2001g:57048**

## 57Q37 Isotopy

**Kamada, Seiichi** (*with* Kawauchi, Akio; Matumoto, Takao) Combinatorial moves on ambient isotopic submanifolds in a manifold. (English summary) **2001m:57043**
**Kawauchi, Akio** *see* **Kamada, Seiichi et al., 2001m:57043**
**Matumoto, Takao** *see* **Kamada, Seiichi et al., 2001m:57043**

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**Repovš, Dušan D.** (*with* Skopenkov, A. B.) New results on embeddings of polyhedra and manifolds into Euclidean spaces. (Russian. Russian summary) **2001c:57028**
**Saeki, Osamu** Theory of fibered 3-knots in $S^5$ and its applications. (English summary) **2001b:57058**
**Skopenkov, A. B.** *see* **Repovš, Dušan D., 2001c:57028**

## 57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

**Carter, J. Scott** (*with* Kamada, Seiichi; Saito, Masahico) Alexander numbering of knotted surface diagrams. (English summary) **2001b:57056**
**Gu, Weiqing** (*with* Jiang, Shenjun) Knotty matrices in knots. **2001g:57047**
**Habiro, Kazuo** (*with* Shima, Akiko) Finite type invariants of ribbon 2-knots. II. (English summary) **2001m:57044**
**Jiang, Shenjun** *see* **Gu, Weiqing, 2001g:57047**
**Kamada, Seiichi** *see* **Carter, J. Scott et al., 2001b:57056**
**Lü, Zhi** A note on Brieskorn spheres and the generalized Smith conjecture. **2001i:57036**
**Melikhov, S.** Pseudo-homotopy implies homotopy for singular links of codimension $\geq 3$. (Russian) **2001h:57027**
**Nezhinskiĭ, V. M.** An analogue of the Milnor link group in the theory of multidimensional links. (Russian. English and Russian summaries) **2001b:57057**
**Ogasa, Eiji** Link cobordism and the intersection of slice discs. **2001a:57038**
— The projections of $n$-knots which are not the projection of any unknotted knot. (English summary) **2001k:57033**
**Saeki, Osamu** Theory of fibered 3-knots in $S^5$ and its applications. (English summary) **2001b:57058**
**Saito, Masahico** *see* **Carter, J. Scott et al., 2001b:57056**
**Satoh, Shin** Virtual knot presentation of ribbon torus-knots. (English summary) **2001c:57029**
— Lifting a generic surface in 3-space to an embedded surface in 4-space. (English summary) **2001h:57028**
**Sayakhova, R. F.** Homotopy classification of singular links of type $(1, 1, m; 3)$ with $m > 1$. (Russian. English and Russian summaries) **2001e:57027**
**Shima, Akiko** *see* **Habiro, Kazuo, 2001m:57044**
**Skopenkov, A. B.** On the generalized Massey-Rolfsen invariant for link maps. (English summary) **2001j:57033**
**Taniyama, Kouki** Higher dimensional links in a simplicial complex embedded in a sphere. (English summary) **2001g:57048**

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**Carter, J. Scott** (*with* Jelsovsky, Daniel; Kamada, Seiichi; Saito, Masahico) Computations of quandle cocycle invariants of knotted curves and surfaces. (English summary) **2001m:57009**
**Jelsovsky, Daniel** *see* **Carter, J. Scott et al., 2001m:57009**
**Kamada, Seiichi** (*with* Kawauchi, Akio; Matumoto, Takao) Combinatorial moves on ambient isotopic submanifolds in a manifold. (English summary) **2001m:57043**
— *see also* **Carter, J. Scott et al., 2001m:57009**
**Kawauchi, Akio** *see* **Kamada, Seiichi et al., 2001m:57043**
**Kuz'min, Yu. V.** On solvable groups of knotted surfaces. **2001i:57003**
**Levine, Jerome** (*with* Orr, Kent E.) A survey of applications of surgery to knot and link theory. **2001e:57034**
**Matumoto, Takao** *see* **Kamada, Seiichi et al., 2001m:57043**
**Orr, Kent E.** *see* **Levine, Jerome, 2001e:57034**
**Saeki, Osamu** On algebraic unknotting numbers of knots. (English summary) **2001b:57021**
**Saito, Masahico** *see* **Carter, J. Scott et al., 2001m:57009**
**Vassiliev, V. A.** Topology of two-connected graphs and homology of spaces of knots. (English summary) **2001b:55030**

## 57Q60 Cobordism and concordance

Items with secondary classifications in 57Q60

**Melikhov, S.** Pseudo-homotopy implies homotopy for singular links of codimension $\geq 3$. (Russian) **2001h:57027**

## 57Q91 Equivariant PL-topology

Items with secondary classifications in 57Q91

**Illman, Sören** Existence and uniqueness of equivariant triangulations of smooth proper $G$-manifolds with some applications to equivariant Whitehead torsion. **2001j:57032**

## 57Q99 None of the above, but in this section

**Anderson, Laura** (*with* Mnëv, N. E.) Triangulations of manifolds and combinatorial bundle theory: an announcement. (English and Russian summaries) **2001m:57045**
**Cavicchioli, Alberto** (*with* Meschiari, M.; Spaggiari, Fulvia) A graph theoretic algorithm for computing the (co)homology of polyhedra. (Italian summary) **2001e:57028**
**Meschiari, M.** *see* **Cavicchioli, Alberto et al., 2001e:57028**
**Mnëv, N. E.** *see* **Anderson, Laura, 2001m:57045**
**Spaggiari, Fulvia** *see* **Cavicchioli, Alberto et al., 2001e:57028**

Items with secondary classifications in 57Q99

**Björner, Anders** Face numbers of scarf complexes. (English summary) **2001k:52024**
**Chari, Manoj K.** On discrete Morse functions and combinatorial decompositions. (English and French summaries) **2001g:52016**
**Edelman, Paul H.** (*with* Rambau, Jörg; Reiner, Victor) On subdivision posets of cyclic polytopes. (English summary) **2001b:52020**
**Funar, Louis** Cubulations, immersions, mappability and a problem of Habegger. (English and French summaries) **2001f:57027**
**Herlihy, Maurice** (*with* Shavit, Nir) The topological structure of asynchronous computability. (English summary) **2001i:68045**
**Rambau, Jörg** *see* **Edelman, Paul H. et al., 2001b:52020**
**Reiner, Victor** *see* **Edelman, Paul H. et al., 2001b:52020**
**Shavit, Nir** *see* **Herlihy, Maurice, 2001i:68045**

# 57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

## 57R05 Triangulating

Items with secondary classifications in 57R05

**Browder, William** Differential topology of higher-dimensional manifolds. **2001d:57036**
**Burman, Yu. M.** Triangulations of surfaces with boundary and the homotopy principle for functions without critical points. (English summary) **2001b:57071**

## 57R10 Smoothing

Items with secondary classifications in 57R10

**Browder, William** Differential topology of higher-dimensional manifolds. **2001d:57036**

## 57R12 Smooth approximations

**Luukkainen, Jouni** Lipschitz and quasiconformal approximation of homeomorphism pairs. (English summary) **2001k:57034**

## 57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

**Abreu, Miguel** (*with* McDuff, Dusa) Topology of symplectomorphism groups of rational ruled surfaces. **2001k:57035**
**Geiges, Hansjörg** *see* **Müller, Stefan[1], 2001g:57049**
**Im, Sung Mo** (*with* Kim, Heung Ki) Compact flat manifolds with non-vanishing Stiefel-Whitney classes. (English summary) **2001i:57037**
**Kim, Heung Ki** *see* **Im, Sung Mo, 2001i:57037**
**Li, Tian-Jun** Symplectic Parshin-Arakelov inequality. **2001i:57038**
**McDuff, Dusa** *see* **Abreu, Miguel, 2001k:57035**
**Müller, Stefan[1]** (*with* Geiges, Hansjörg) Almost complex structures on 8-manifolds. **2001g:57049**
**Owczarek, Robert** Spinor structures on flag manifolds of compact simple Lie groups. (English summary) **2001f:57028**
**Stipsicz, András I.** Simply connected symplectic 4-manifolds with positive signature. **2001e:57029**
— The geography problem of 4-manifolds with various structures. (English summary) **2001g:57050**

Items with secondary classifications in 57R15

**Borthwick, David** (*with* Uribe, Alejandro) Nearly Kählerian embeddings of symplectic manifolds. **2001m:53166**
**Chaves, Lucas M.** (*with* Rigas, A. G.) From the triality viewpoint. (English summary) **2001c:57035**
**Finashin, Sergei** (*with* Shustin, Evgenii) On imaginary plane curves and spin quotients of complex surfaces by complex conjugation. (English summary) **2001e:14056**
**Fukumoto, Yoshihiro** On an invariant of plumbed homology 3-spheres. (English summary) **2001m:57032**
— (*with* Furuta, Mikio) Homology 3-spheres bounding acyclic 4-manifolds. (English summary) **2001m:57063**
**Furuta, Mikio** *see* **Fukumoto, Yoshihiro, 2001m:57063**
**Gilkey, Peter B.** The eta invariant of Pin manifolds with cyclic fundamental groups. (English summary) **2001a:58034**
**Habermann, Katharina** An $\mathrm{Mp}^C$-spinorial approach to a geometric-type quantization for symplectic manifolds. (English summary) **2001m:53167**
**Hattori, Akio[1]** Almost complex toric manifolds and positive line bundles. (English summary) **2001a:58030**
**Lee, Ronnie** (*with* Li, Tian-Jun) Intersection forms of non-spin four manifolds. **2001m:57027**
**Li, Tian-Jun** *see* **Lee, Ronnie, 2001m:57027**
**Rigas, A. G.** *see* **Chaves, Lucas M., 2001c:57035**

**Sankaran, Parameswaran** (*with* Zvengrowski, Peter) $K$-theory of oriented Grassmann manifolds. (English summary) **2001h:55005**
**Shustin, Evgenii** *see* **Finashin, Sergei, 2001e:14056**
**Siebert, Bernd** (*with* Tian, Gang) On hyperelliptic $C^\infty$-Lefschetz fibrations of four-manifolds. (English summary) **2001g:57053**
**Stipsicz, András I.** Erratum to: "Chern numbers of certain Lefschetz fibrations" [Proc. Amer. Math. Soc. **128** (2000), no. 6, 1845–1851; MR 2000j:57062]. **2001h:57035**
**Tian, Gang** *see* **Siebert, Bernd, 2001g:57053**
**Uribe, Alejandro** *see* **Borthwick, David, 2001m:53166**
**Zhubr, A. V.** Closed simply connected six-dimensional manifolds: proofs of classification theorems. (Russian. Russian summary) **2001j:57041**
**Zvengrowski, Peter** *see* **Sankaran, Parameswaran, 2001h:55005**

## 57R17 Symplectic and contact topology

**Babenko, I. K.** (*with* Taimanov, Iskander A.) On nonformal simply connected symplectic manifolds. (Russian. Russian summary) **2001g:57051**
**Chen, Weimin[1]** (*with* Matveyev, Rostislav) Symplectic Lefschetz fibrations on $S^1 \times M^3$. (English summary) **2001j:57034**
**Cho, Mi Sung** (*with* Cho, Yong Seung) Note on contact structure and symplectic structure. (English summary) **2001b:57059**
**Cho, Yong Seung** Invariants on symplectic manifolds. (Korean. Korean summary) **2001j:57035**
— *see also* **Cho, Mi Sung, 2001b:57059**
**Colin, Vincent** Corrigendum: "Gluing tight contact manifolds" [Bull. Soc. Math. France **127** (1999), no. 1, 43–69; MR 2000e:57042]. (French) **2001a:57039**
**Donaldson, S. K.** Polynomials, vanishing cycles and Floer homology. **2001g:57052**
**Endo, H.** (*with* Kotschick, D.) Bounded cohomology and non-uniform perfection of mapping class groups. (English summary) **2001m:57046**
**Ferrand, Emmanuel** On Legendre cobordisms. (English summary) **2001d:57025**
**Fintushel, Ronald** (*with* Stern, Ronald John) Symplectic surfaces in a fixed homology class. **2001j:57036**
**Kotschick, D.** *see* **Endo, H., 2001m:57046**
**Matveyev, Rostislav** *see* **Chen, Weimin[1], 2001j:57034**
**Ohta, Hiroshi[4]** (*with* Ono, Kaoru) Simple singularities and topology of symplectically filling 4-manifold. (English summary) **2001b:57060**
**Ono, Kaoru** *see* **Ohta, Hiroshi[4], 2001b:57060**
**Siebert, Bernd** (*with* Tian, Gang) On hyperelliptic $C^\infty$-Lefschetz fibrations of four-manifolds. (English summary) **2001g:57053**
**Stern, Ronald John** *see* **Fintushel, Ronald, 2001j:57036**
**Stipsicz, András I.** Indecomposability of certain Lefschetz fibrations. (English summary) **2001h:57029**
**Taimanov, Iskander A.** *see* **Babenko, I. K., 2001g:57051**
**Tian, Gang** *see* **Siebert, Bernd, 2001g:57053**
**Torisu, Ichiro** Convex contact structures and fibered links in 3-manifolds. **2001i:57039**
**Tralle, A. E.** Homotopy properties of closed symplectic manifolds. (English summary) **2001m:57047**

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**Arnol'd, V. I.** Topological problems in wave propagation theory and topological economy principle in algebraic geometry. (English summary) **2001e:01027**
— Symplectic geometry and topology. (English summary) **2001h:53108**
**Auroux, Denis** (*with* Katzarkov, Ludmil) Branched coverings of $\mathbf{CP}^2$ and invariants of symplectic 4-manifolds. **2001k:53169**
**Bande, Gianluca** On generalized contact forms. (English summary) **2001g:53135**
**Boyer, Charles P.** (*with* Galicki, Krzysztof) A note on toric contact geometry. (English summary) **2001h:53124**
**Cannas da Silva, Ana** (*with* Guillemin, Victor W.; Woodward, Christopher) On the unfolding of folded symplectic structures. (English summary) **2001b:53110**
**Chmutov, S. V.** (*with* Goryunov, V. V.; Murakami, Hitoshi) Regular Legendrian knots and the HOMFLY polynomial of immersed plane curves. (English summary) **2001h:57009**
**Cho, Mi Sung** *see* **Cho, Yong Seung, 2001j:53114**
**Cho, Yong Seung** (*with* Cho, Mi Sung) Genus minimizing in symplectic 4-manifolds. (English summary) **2001j:53114**
**Cohen, Ralph L.** (*with* Jones, John D. S.; Segal, Graeme B.) Stability for holomorphic spheres and Morse theory. (English summary) **2001j:53115**
**Dotti Miatello, Isabel G.** (*with* Tirao, Paulo) Symplectic structures on Heisenberg-type nilmanifolds. (English summary) **2001g:53151**
**Etnyre, John B.** Tight contact structures on lens spaces. (English summary) **2001k:57017**
**Fang, Fuquan** (*with* Rong, Xiaochun) Fixed point free circle actions and finiteness theorems. (English summary) **2001d:53044**
**Fintushel, Ronald** (*with* Stern, Ronald John) Nonsymplectic 4-manifolds with one basic class. (English summary) **2001g:57060**
**Galicki, Krzysztof** *see* **Boyer, Charles P., 2001h:53124**
**Giroux, Emmanuel** Structures de contact en dimension trois et bifurcations des feuilletages de surfaces. [Contact structures in dimension three and bifurcations of surface foliations] **2001i:53147**
**Goryunov, V. V.** *see* **Chmutov, S. V. et al., 2001h:57009**
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**Haller, Stefan** (*with* Rybicki, Tomasz) On the group of diffeomorphisms preserving a locally conformal symplectic structure. (English summary) **2001f:53164**
**Honda, Ko** (*with* Kazez, William H.; Matić, Gordana) Tight contact structures and taut foliations. (English summary) **2001i:53149**
— On the classification of tight contact structures. I. (English summary) **2001i:53148**
**Ishida, Masashi** Exotic involutions on symplectic 4-manifolds and $G$-monopole invariants. (English summary) **2001m:57057**
**Jones, John D. S.** *see* **Cohen, Ralph L. et al., 2001j:53115**
**Katzarkov, Ludmil** *see* **Auroux, Denis, 2001k:53169**
**Kazez, William H.** *see* **Honda, Ko et al., 2001i:53149**
**Kim, Jin-Hong** On spin $\mathbf{Z}/2^p$-actions on spin 4-manifolds. (English summary) **2001g:57061**
**Kronheimer, P. B.** Developments in symplectic topology. **2001i:53150**
**Lalonde, François** (*with* Pestieau, Charles) Stabilisation of symplectic inequalities and applications. (English summary) **2001g:53152**
**Li, Jun[1]** (*with* Tian, Gang) Comparison of algebraic and symplectic Gromov-Witten invariants. **2001i:53155**
**Li, Tian-Jun** Symplectic Parshin-Arakelov inequality. **2001i:57038**
**Lisca, Paolo** On symplectic fillings of 3-manifolds. **2001f:53178**
**Lu, Guangcun** The Weinstein conjecture in the uniruled manifolds. (English summary) **2001i:53156**
**Ma, Renyi** The existence of $J$-holomorphic curves and applications to the Weinstein conjecture. (English summary) **2001f:53179**
**Matić, Gordana** *see* **Honda, Ko et al., 2001i:53149**
**McCarthy, John D.** On the asphericity of a symplectic $M^3 \times S^1$. (English summary) **2001c:57024**
**McDuff, Dusa** Almost complex structures on $S^2 \times S^2$. **2001h:53126**
— Quantum homology of fibrations over $S^2$. (English summary) **2001i:53157**
**Montgomery, Richard** Engel deformations and contact structures. **2001h:53127**
**Morgan, John W.** Smooth invariants of 4-manifolds. **2001d:57031**
**Murakami, Hitoshi** *see* **Chmutov, S. V. et al., 2001h:57009**
**Ozsváth, Peter** (*with* Szabó, Zoltán) The symplectic Thom conjecture. (English summary) **2001a:57049**
**Peltonen, Kirsi** Contact structures on $S^3$ and Seifert fibrations. **2001d:53097**
**Pestieau, Charles** *see* **Lalonde, François, 2001g:53152**
**Rong, Xiaochun** *see* **Fang, Fuquan, 2001d:53044**
**Rudyak, Yu. B.** (*with* Tralle, A. E.) On Thom spaces, Massey products, and nonformal symplectic manifolds. **2001h:53128**
**Rybicki, Tomasz** On automorphisms of a Jacobi manifold. (English summary) **2001m:53155**
— *see also* **Haller, Stefan, 2001f:53164**
**Segal, Graeme B.** *see* **Cohen, Ralph L. et al., 2001j:53115**
**Seidel, Paul** Lagrangian two-spheres can be symplectically knotted. **2001g:53139**
**Stern, Ronald John** *see* **Fintushel, Ronald, 2001g:57060**
**Stipsicz, András I.** Simply connected symplectic 4-manifolds with positive signature. **2001e:57029**
— The geography problem of 4-manifolds with various structures. (English summary) **2001g:57050**
— *see also* **Morgan, John W., 2001d:57031**
**Szabó, Zoltán** *see* **Ozsváth, Peter, 2001a:57049**
**Taubes, Clifford Henry** SW ⇒ Gr: from the Seiberg-Witten equations to pseudo-holomorphic curves [MR 97a:57033].
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**Tralle, A. E.** *see* **Rudyak, Yu. B., 2001h:53128**
**Tyurin, N. A.** Abelian monopoles: the case of positive-dimensional moduli space. (Russian. Russian summary) **2001d:57033**
**Viterbo, Claude** Metric and isoperimetric problems in symplectic geometry. **2001g:53140**
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**Yamazaki, Tsutomu** A construction of $K$-contact manifolds by a fiber join. (English summary) **2001e:53094**

## 57R19 Algebraic topology on manifolds

**Alaniya, L. A.** Cohomology with local coefficients of some nilmanifolds. (Russian) **2001d:57026**
**Biasi, Carlos** (*with* Daccach, Janey Antonio; Saeki, Osamu) A primary obstruction to topological embeddings for maps between generalized manifolds. (English summary) **2001m:57048**
**Cohen, Daniel C.** (*with* Orlik, Peter) Arrangements and local systems. (English summary) **2001i:57040**
**Daccach, Janey Antonio** *see* **Biasi, Carlos et al., 2001m:57048**
**Félix, Yves** (*with* Thomas, Jean-Claude) Rational Betti numbers of configuration spaces. (English summary) **2001g:57054**
**Kreck, Matthias** A guide to the classification of manifolds. **2001b:57061**
**Orlik, Peter** *see* **Cohen, Daniel C., 2001i:57040**
**Podkorytov, S. S.** A quadratic property of the rational semicharacteristic. (Russian. English and Russian summaries) **2001m:57049**
**Saeki, Osamu** *see* **Biasi, Carlos et al., 2001m:57048**
**Thomas, Jean-Claude** *see* **Félix, Yves, 2001g:57054**
**Vitushkin, A. G.** Description of the homology of a ramified covering of $\mathbf{C}^2$. (Russian. Russian summary) **2001j:57037**

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**Anderson, Douglas Ross** (*with* Munkholm, Hans Jørgen) Continuously controlled $K$-theory with variable coefficients. (English summary) **2001h:19002**
**Bekka, Karim** (*with* Murolo, Claudio) Homologie d'espaces stratifiés. (English and French summaries) [Homology of stratified spaces] **2001m:57064**
**Brückmann, Peter** A remark on moduli spaces of 4-dimensional complete intersections. (English summary) **2001m:14020**
**Bukhshtaber, V. M.** (*with* Panov, Taras E.) Torus actions determined by simple polytopes. (English summary) **2001h:57046**
**Davis, Michael Walter** Poincaré duality groups. **2001b:57001**

**Degtyarëv, Aleksandr Igorevich** (*with* Kharlamov, Viatcheslav) Topological properties of real algebraic varieties: Rokhlin's way. (Russian. Russian summary) **2001h:14077**
**Jacobs, Philippe** A sheaf homology theory with supports. (English summary) **2001j:11113**
**Kaliman, Shulim** Uniform Zariski's theorem on fundamental groups. (English summary) **2001e:14022**
**Kharlamov, Viatcheslav** *see* **Degtyarëv, Aleksandr Igorevich, 2001h:14077**
**Klein, John R.** Poincaré embeddings of spheres. (English summary) **2001g:57045**
**Korbaš, Július** On cohomology of fiber bundles with Grassmannian fibers. (English summary) (*see* **2001i:00034**)
**Mishchenko, A. S.** The local combinatorial Hirzebruch formula. (Russian) **2001a:57036**
**Munkholm, Hans Jørgen** *see* **Anderson, Douglas Ross, 2001h:19002**
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**Nicolaescu, Liviu I.** ★ Notes on Seiberg-Witten theory. (English summary) **2001k:57037**
**Olive, David I.** *see* **Alvarez, Marcos, 2001j:58036**
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**Upadhyay, Shashidhar** A bounding question for almost flat manifolds. (English summary) **2001h:57042**

## 57R20 Characteristic classes and numbers

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**Korbaš, Július** On cohomology of fiber bundles with Grassmannian fibers. (English summary) (*see* **2001i:00034**)
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**Murata, Takashi** *see* **Kuramoto, Yoshiyuki et al., 2001j:57040**
**Naber, Gregory L.** ★ Topology, geometry, and gauge fields. (English summary) **2001g:53058**
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**Totaro, Burt** Chern numbers for singular varieties and elliptic homology. **2001g:58037**
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**Upadhyay, Shashidhar** A bounding question for almost flat manifolds. (English summary) **2001h:57042**
**Vdovina, Alina** *see* **Bailly, Catherine, 2001k:11066**
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## 57R22 Topology of vector bundles and fiber bundles [see also 55Rxx]

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## 57R25 Vector fields, frame fields

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**Urban, Karsten** Wavelet bases in $H(\mathrm{div})$ and $H(\mathrm{curl})$. (English summary) **2001g:42069**
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**Zhang, Wei Ping[1]** $\eta$-invariants and the Poincaré-Hopf index formula. (English summary) **2001m:58052**

## 57R27 Controllability of vector fields on $C^\infty$ and real-analytic manifolds [see also 49Qxx, 37C10, 93B05]

Items with secondary classifications in 57R27

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## 57R30 Foliations; geometric theory

**Bouacida, Ezzeddine** (*with* Echi, Othman; Salhi, Ezzeddine) Foliations, spectral topology, and special morphisms. (English summary) **2001e:57030**
**Calegari, Danny** Foliations transverse to triangulations of 3-manifolds. (English summary) **2001b:57063**
**Cantwell, John C.** (*with* Conlon, Lawrence) Foliation cones. (English summary) **2001e:57031**
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**Fukui, Kazuhiko** (*with* Mori, Atsuhide) Codimension two compact Hausdorff foliations by hyperbolic surfaces are not stable. **2001m:57052**
**Marzougui, Habib** Flows with infinite singularities on closed two-manifolds. (English summary) **2001h:57032**
**Mori, Atsuhide** *see* **Fukui, Kazuhiko, 2001m:57052**
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**Bonahon, Francis** Geodesic laminations on surfaces. **2001m:57023**
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**Gabai, David** Essential laminations and Kneser normal form. **2001m:57025**
— Combinatorial volume preserving flows and taut foliations. (English summary) **2001f:57017**
**Gautero, François** Dynamical $n$-complexes. (English and French summaries) **2001e:57018**
**Ghys, Étienne** Laminations par surfaces de Riemann. (English and French summaries) [Laminations by Riemann surfaces] **2001g:37068**
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**Giroux, Emmanuel** Structures de contact en dimension trois et bifurcations des feuilletages de surfaces. [Contact structures in dimension three and bifurcations of surface foliations] **2001i:53147**
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**Heitsch, James L.** Coarse sheaf cohomology for foliations. (English summary) **2001k:55016**
**Honda, Ko** (*with* Kazez, William H.; Matić, Gordana) Tight contact structures and taut foliations. (English summary) **2001i:53149**
**Huebschmann, Johannes** Extensions of Lie-Rinehart algebras and the Chern-Weil construction. (English summary) **2001b:17035**
**Jung, Seoung Dal** Some properties of transversally symmetric foliation. (English summary) **2001k:53041**
**Kazez, William H.** *see* **Honda, Ko et al., 2001i:53149**
**Khruzin, A. N.** On the classification of oriented foliations with singularities on the surfaces. II. (Russian) **2001f:37029**
**Kubarski, Jan** Connections in regular Poisson manifolds over **R**-Lie foliations. (English summary) **2001k:53157**
**Lodder, Gerald M.** Rigidity of secondary characteristic classes. (English summary) **2001b:57064**
**Lustig, Martin** (*with* Oertel, Ulrich) Invariant laminations for diffeomorphisms of handlebodies. (English summary) **2001m:57028**
**Macho-Stadler, Marta** Foliations, groupoids and Baum-Connes conjecture. (English and Russian summaries) **2001h:58030**
**Macias-Virgós, E.** (*with* Sanmartín Carbón, E.) Manifolds of maps in Riemannian foliations. (English summary) **2001f:58023**
**Matić, Gordana** *see* **Honda, Ko et al., 2001i:53149**
**Medvedev, Vladislav Sergeevich** *see* **Aranson, S. Kh. et al., 2001f:37051**
**Metoki, Syn-ya** Residue formulae for secondary characteristic classes. (English summary) **2001b:57062**
**Mikami, Kentaro** Godbillon-Vey classes of symplectic foliations. (English summary) **2001e:53086**
**Moerdijk, Ieke** *see* **Crainic, Marius, 2001f:58039**
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**Noda, Takeo** Projectively Anosov flows with differentiable (un)stable foliations. (English and French summaries) **2001m:37055**
**Oertel, Ulrich** *see* **Lustig, Martin, 2001m:57028**
**Pedroni, Marco** *see* **De Mari, Filippo, 2001d:37088**
**Ramsay, Arlan B.** Polish groupoids. **2001e:22003**
**Rovenskiĭ, Vladimir** Foliations, submanifolds, and mixed curvature. **2001f:53059**
— Positiveness of mixed curvature and dimension of foliation. (English summary) **2001m:53047**
**Royo Prieto, José Ignacio** The Euler class for Riemannian flows. (English and French summaries) **2001m:53048**
**Sanmartín Carbón, E.** *see* **Macias-Virgós, E., 2001f:58023**
**Sotomayor, Jorge** (*with* Zhitomirskiĭ, Mihail) On pairs of foliations defined by vector fields in the plane. (English summary) **2001c:37024**
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**Tyshchenko, V. Yu.** *see* **Gorbuzov, V. N., 2001f:37028**
**(Yampol′skiĭ, A. L.)** *see* **Aminov, Yu. A., 2001f:53001**
**Yorozu, Shinsuke** Leaf space of a certain Hopf $r$-foliation. (English summary) **2001c:53035**
— Total transversal scalar curvatures of Hopf $\alpha$-foliations. (English summary) **2001m:53049**
**Zhitomirskiĭ, Mihail** *see* **Sotomayor, Jorge, 2001c:37024**
**Zhuzhoma, E. V.** *see* **Aranson, S. Kh. et al., 2001f:37051**

## 57R32 Classifying spaces for foliations; Gel′fand-Fuks cohomology [see also 58H10]

**Lodder, Gerald M.** Rigidity of secondary characteristic classes. (English summary) **2001b:57064**

Items with secondary classifications in 57R32

**Mikami, Kentaro** Godbillon-Vey classes of symplectic foliations. (English summary) **2001e:53086**

## 57R35 Differentiable mappings

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**Magiropoulos, Manolis** Induced fibrations on spaces of fiber transferring maps: the $C^r$ case. (English summary) **2001m:55043**
**Pintea, C.** Differentiable mappings with an infinite number of critical points. (English summary) **2001b:57076**
**Saeki, Osamu** (*with* Sakuma, Kazuhiro) Stable maps between 4-manifolds and elimination of their singularities. (English summary) **2001d:57030**
**Sakuma, Kazuhiro** *see* **Saeki, Osamu, 2001d:57030**
**Vakhrameev, S. A.** Morse lemmas for smooth functions on manifolds with corners. **2001j:57043**

## 57R40 Embeddings

**Goodwillie, Thomas G.** (*with* Klein, John R.; Weiss, Michael S.) Spaces of smooth embeddings, disjunction and surgery. (English summary) **2001m:57053**
**Klein, John R.** *see* **Goodwillie, Thomas G. et al., 2001m:57053**

**Kuramoto, Yoshiyuki** (*with* Yasui, Tsutomu) On conditions that a map is cobordant to an embedding. (English summary) **2001f:57031**
— (*with* Murata, Takashi; Yasui, Tsutomu) Non-embeddability of manifolds into projective spaces. (English summary) **2001j:57040**
**Murata, Takashi** *see* **Kuramoto, Yoshiyuki et al., 2001j:57040**
**Repovš, Dušan D.** (*with* Skopenkov, A. B.) Borromean rings and obstructions to embeddability. (Russian. Russian summary) **2001b:57065**
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**Takase, Masamichi** Embeddings of $Z_2$-homology 3-spheres in $\mathbf{R}^5$ up to regular homotopy. (English summary) **2001c:57030**
**Weiss, Michael S.** *see* **Goodwillie, Thomas G. et al., 2001m:57053**
**Yasui, Tsutomu** Enumerating embeddings of $n$-manifolds into complex projective $n$-space. (English summary) **2001b:57067**
— *see also* **Kuramoto, Yoshiyuki et al., 2001f:57031** *and* **2001j:57040**
**Zvagel'skiĭ, M. Yu.** Cobordisms of embeddings of codimension 2. (Russian. English and Russian summaries) **2001e:57032**

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**Byun, Yanghyun** (*with* Yi, Seunghun) Weakly Lagrangian embedding $S^m \times S^n$ into $\mathbf{C}^{m+n}$. (English summary) **2001b:53100**
**Cho, Mi Sung** *see* **Cho, Yong Seung, 2001j:53114**
**Cho, Yong Seung** (*with* Cho, Mi Sung) Genus minimizing in symplectic 4-manifolds. (English summary) **2001j:53114**
**Daccach, Janey Antonio** *see* **Biasi, Carlos et al., 2001m:57048**
**Davis, Donald M.** (*with* Zelov, Vitaly) Some new embeddings and nonimmersions of real projective spaces. (English summary) **2001b:57068**
**Fang, Fuquan** Smooth structures on $\Sigma \times \mathbf{R}$. (English summary) **2001a:57044**
**Klein, John R.** Poincaré embeddings of spheres. (English summary) **2001g:57045**
**Ko, Seok-Ku** Embedding open Riemann surfaces in Riemannian manifolds. (English summary) **2001d:30081**
**Noirel, Laurent** (*with* Trotman, David) Subanalytic and semialgebraic realisations of abstract stratified sets. (English summary) **2001h:58006**
**Saeki, Osamu** *see* **Biasi, Carlos et al., 2001m:57048**
**Trotman, David** *see* **Noirel, Laurent, 2001h:58006**
**Yi, Seunghun** *see* **Byun, Yanghyun, 2001b:53100**
**Zelov, Vitaly** *see* **Davis, Donald M., 2001b:57068**

## 57R42 Immersions

**Asadi-Golmankhaneh, Mohammad A.** (*with* Eccles, Peter J.) Determining the characteristic numbers of self-intersection manifolds. (English summary) **2001d:57027**
**Davis, Donald M.** (*with* Zelov, Vitaly) Some new embeddings and nonimmersions of real projective spaces. (English summary) **2001b:57068**
**Eccles, Peter J.** *see* **Asadi-Golmankhaneh, Mohammad A., 2001d:57027**
**Ekholm, Tobias** Self-intersection surfaces, regular homotopy, and finite order invariants. (English summary) **2001b:57069**
— Differential 3-knots in 5-space with and without self-intersections. (English summary) **2001h:57033**
**Gini, Rosa** Cobordism of immersions of surfaces in non-orientable 3-manifolds. (English summary) **2001m:57054**
**González, Jesús**[2] Connective $K$-theoretic Euler classes and non-immersions of $2^k$-lens spaces. (English summary) **2001i:57043**
**Rourke, Colin** (*with* Sanderson, Brian) A new approach to immersion theory. **2001h:57034**
**Sanderson, Brian** *see* **Rourke, Colin, 2001h:57034**
**Szűcs, András** Two theorems of Rokhlin. (English and Russian summaries) **2001k:57036**
**Tchernov, Vladimir** Homotopy groups of the space of curves on a surface. (English summary) **2001b:57070**
**Zelov, Vitaly** *see* **Davis, Donald M., 2001b:57068**

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**Tóth, Gábor**[1] Minimal immersions of spheres and moduli. **2001k:53125**
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## 57R45 Singularities of differentiable mappings

**Baines, Clare** The multiplicity of the Lyashko-Looijenga mapping on the discriminant strata of even and odd polynomials. **2001a:57042**
**Burman, Yu. M.** Triangulations of surfaces with boundary and the homotopy principle for functions without critical points. (English summary) **2001b:57071**
**Eliashberg, Yakov** (*with* Mishachev, N. M.) Wrinkling of smooth mappings. II. Wrinkling of embeddings and K. Igusa's theorem. (English summary) **2001g:57058**
**Kálmán, Tamás** Stable maps of surfaces into the plane. (English summary) **2001f:57032**
**Kulinich, E. V.** On topologically equivalent Morse functions on surfaces. (English summary) **2001d:57028**
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**Prishlyak, A. O.** On topologically equivalent Morse functions on 3-manifold. (English summary) **2001d:57029**
**Saeki, Osamu** (*with* Sakuma, Kazuhiro) Stable maps between 4-manifolds and elimination of their singularities. (English summary) **2001d:57030**
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**Janeczko, Stanisław** On implicit Lagrangian differential systems. (English summary) **2001m:37118**
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**Kazaryan, M. É.** Topological invariants of fiber singularities. **2001i:58088**
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**Thaddeus, Michael** A perfect Morse function on the moduli space of flat connections. (English summary) **2001h:53123**
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## 57R50 Diffeomorphisms

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**Murolo, Claudio** Diffeomorphisms lying in one-parameter groups and extension of stratified homeomorphisms. (English summary) **2001m:58021**
**Ranicki, Andrew** An introduction to algebraic surgery. **2001m:19010**
**Ruberman, Daniel** A polynomial invariant of diffeomorphisms of 4-manifolds. (English summary) **2001b:57073**
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**Meersseman, Laurent** (*with* Verjovsky, Alberto) Structures algébriques exotiques de $\mathbf{R}^4$ et conjectures de Poincaré. (English and French summaries) [Exotic algebraic structures of $\mathbf{R}^4$ and Poincaré conjectures] **2001m:57056**
**Oledzki, Wieslaw J.** Exotic involutions of low-dimensional spheres and the eta-invariant. (English summary) **2001a:57045**
**Park, B. Doug** Exotic smooth structures on $3\mathbf{CP}^2\#n\overline{\mathbf{CP}}^2$. (English summary) **2001a:57046**
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**Zhubr, A. V.** Closed simply connected six-dimensional manifolds: proofs of classification theorems. (Russian. Russian summary) **2001j:57041**

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**Fang, Fuquan** (*with* Rong, Xiaochun) Fixed point free circle actions and finiteness theorems. (English summary) **2001d:53044**
**Fintushel, Ronald** (*with* Stern, Ronald John) Nonsymplectic 4-manifolds with one basic class. (English summary) **2001g:57060**
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**Morgan, John W.** Smooth invariants of 4-manifolds. **2001d:57031**
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**Szabó, Zoltán** *see* **Stipsicz, András I.**, **2001h:57040**

## 57R56 Topological quantum field theories

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**Brightwell, Mark** (*with* Turner, Paul) Representations of the homotopy surface category of a simply connected space. (English summary) **2001i:57045**
**Donaldson, S. K.** Topological field theories and formulae of Casson and Meng-Taubes. (English summary) **2001f:57033**
**Mackaay, Marco** Finite groups, spherical 2-categories, and 4-manifold invariants. (English summary) **2001f:57034**
**Pilo, Luigi** ★ Chern-Simons field theory and invariants of 3-manifolds. **2001a:57048**
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**Dubrovin, Boris** Painlevé transcendents in two-dimensional topological field theory. (English summary) **2001h:53131**
**Felder, Giovanni** (*with* Fröhlich, Jürg; Fuchs, Jürgen; Schweigert, Christoph) Conformal boundary conditions and three-dimensional topological field theory. (English summary) **2001f:81174**
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**Funar, Louis** (*with* Gelca, Răzvan) On the groupoid of transformations of rigid structures on surfaces. (English summary) **2001b:57032**
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**Kaul, Romesh K.** Topological QFT—a meeting ground for physicists and mathematicians. (English summary) (*see* **2001b:81065**)
**Labastida, J. M. F.** Chern-Simons gauge theory: ten years after. (English summary) **2001a:81231**
**LaChapelle, J.** (*with* Legaré, M.) On symmetry reductions of topological/cohomological Yang-Mills theories. (English summary) **2001g:81231**
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**Lickorish, W. B. R.** Skeins, $\mathrm{SU}(N)$ three-manifold invariants and TQFT. (English summary) **2001e:57010**
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**Tillmann, Ulrike** Higher genus surface operad detects infinite loop spaces. (English summary) **2001m:55030**
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## 57R57 Applications of global analysis to structures on manifolds, Donaldson and Seiberg-Witten invariants [see also 58–XX]

**Carey, Alan L.** (*with* Wang, Bai-Ling) Notes on Seiberg-Witten-Floer theory. **2001g:57059**
**Fintushel, Ronald** (*with* Stern, Ronald John) Nonsymplectic 4-manifolds with one basic class. (English summary) **2001g:57060**
**Hu, Jian Xun** A remark on Weinstein's conjecture. (Chinese. English and Chinese summaries)
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**Kim, Jin-Hong** On spin $\mathbf{Z}/2^p$-actions on spin 4-manifolds. (English summary) **2001g:57061**
**Lim, Yuhan** Seiberg-Witten invariants for 3-manifolds in the case $b_1 = 0$ or 1. (English summary) **2001g:57062**
**Mariño, Marcos** (*with* Moore, Gregory W.; Peradze, Grigor) Superconformal invariance and the geography of four-manifolds. (English summary) **2001h:57037**
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— (*with* Moore, Gregory W.) Three-manifold topology and the Donaldson-Witten partition function. (English summary) **2001b:57072**
**Moore, Gregory W.** *see* **Mariño, Marcos et al.**, **2001b:57072**; **2001h:57037** *and* **2001h:57038**
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**Nicolaescu, Liviu I.** ★ Notes on Seiberg-Witten theory. (English summary) **2001k:57037**
**Okonek, Christian** (*with* Teleman, Andrei) Recent developments in Seiberg-Witten theory and complex geometry. (English summary) **2001g:57063**
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**Ozsváth, Peter** (*with* Szabó, Zoltán) The symplectic Thom conjecture. (English summary) **2001a:57049**
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**Teleman, Andrei** Moduli spaces of PU(2)-monopoles. **2001m:57059**
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**Li, Wei-Ping** (*with* Qin, Zhenbo) On blowup formulae for the $S$-duality conjecture of Vafa and Witten. II. The universal functions. **2001c:14026**
— (*with* Qin, Zhenbo) On blowup formulae for the $S$-duality conjecture of Vafa and Witten. **2001c:14025**
**Lim, Yuhan** The equivalence of Seiberg-Witten and Casson invariants for homology 3-spheres. (English summary) **2001a:57027**
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**Nekrasov, Nikita A.** *see* **Losev, Andrei et al., 2001k:81300** *and* **(2001h:81005)**
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**Nicolaescu, Liviu I.** Eta invariants of Dirac operators on circle bundles over Riemann surfaces and virtual dimensions of finite energy Seiberg-Witten moduli spaces. (English summary) **2001h:58032**
**Ohta, Hiroshi[4]** (*with* Ono, Kaoru) Simple singularities and topology of symplectically filling 4-manifold. (English summary) **2001b:57060**
**Ono, Kaoru** *see* **Ohta, Hiroshi[4], 2001b:57060**
**Park, B. Doug** Exotic smooth structures on $3\mathbb{CP}^2\#n\overline{\mathbb{CP}}^2$. (English summary) **2001a:57046**
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**Qin, Zhenbo** *see* **Li, Wei-Ping, 2001c:14025** *and* **2001c:14026**
**Rozansky, Lev** *see* **Lawrence, Ruth J., 2001e:58029**
**Sako, A.** (*with* Sasaki, Toru[2]) Euler number of instanton moduli space and Seiberg-Witten invariants. (English summary) **2001k:81274**
**Sambusetti, Andrea** Einstein manifolds, volume rigidity and Seiberg-Witten theory. **2001d:53052**
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**Saveliev, Nikolai** An involution permuting Floer homology. (English summary) **2001e:57033**
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**Sawon, Justin** The Rozansky-Witten invariants of hyper-Kähler manifolds. (English summary) **2001e:58030**
**Shatashvili, Samson L.** *see* **Losev, Andrei et al., 2001k:81300** *and* **(2001h:81005)**
**Stipsicz, András I.** The geography problem of 4-manifolds with various structures. (English summary) **2001g:57050**
— Indecomposability of certain Lefschetz fibrations. (English summary) **2001h:57029**
**Szabo, Richard J.** Topological field theory and quantum holonomy representations of motion groups. (English summary) **2001e:81124**
**Taubes, Clifford Henry** Nonlinear generalizations of a 3-manifold's Dirac operator. **2001a:58048**
— Moduli spaces and Fredholm theory for pseudoholomorphic subvarieties associated to self-dual, harmonic 2-forms. **2001g:53157**
— Seiberg-Witten invariants and pseudo-holomorphic subvarieties for self-dual, harmonic 2-forms. (English summary) **2001e:53093**
— Gr ⇒ SW: from pseudo-holomorphic curves to Seiberg-Witten solutions [MR 2000i:53123].
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## 57R58 Floer homology

**Cheptea, Dorin** Some remarks on Floer homology invariants. (English summary) **2001d:57034**
**Herald, Christopher M.** Chern-Simons gauge theory on 3-manifolds. (English summary) **2001b:57074**
**Hurtubise, David E.** The flow category of the action functional on $\mathcal{L}G_{N,N+K}(\mathbf{C})$. (English summary) **2001i:57047**
**Li, Weiping[1]** The symplectic Floer homology of the figure eight knot. (English summary) **2001i:57048**
**Ruberman, Daniel** Mutation and gauge theory. I. Yang-Mills invariants. (English summary) **2001c:57032**
**Saveliev, Nikolai** An involution permuting Floer homology. (English summary) **2001e:57033**

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— Equivariant Casson invariant for knots and the Neumann-Wahl formula. **2001d:57014**
**Donaldson, S. K.** Polynomials, vanishing cycles and Floer homology. **2001g:57052**
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**Liu, Gang** (*with* Tian, Gang) On the equivalence of multiplicative structures in Floer homology and quantum homology. (English summary) **2001g:53154**
**Mariño, Marcos** (*with* Moore, Gregory W.) Three-manifold topology and the Donaldson-Witten partition function. (English summary) **2001b:57072**
**Moore, Gregory W.** *see* **Mariño, Marcos, 2001b:57072**
**Muñoz, Vicente** Basic classes for four-manifolds not of simple type. (English summary) **2001m:57058**
**Nicolaescu, Liviu I.** Eta invariants of Dirac operators on circle bundles over Riemann surfaces and virtual dimensions of finite energy Seiberg-Witten moduli spaces. (English summary) **2001h:58032**
**Oh, Yong-Geun** Naturality of Floer homology of open subsets in Lagrangian intersection theory. (English summary) **2001i:53153**
— Symplectic topology as the geometry of action functional. II. Pants product and cohomological invariants. **2001a:53123**
— *see also* **Kasturirangan, Rajesh, 2001m:53162**
**Okonek, Christian** (*with* Teleman, Andrei) Seiberg-Witten invariants for 4-manifolds with $b_+ = 0$. (English summary) **2001d:57032**
**Poźniak, Marcin** Floer homology, Novikov rings and clean intersections. **2001a:53124**
**Saveliev, Nikolai** ★ Lectures on the topology of 3-manifolds. (English summary) **2001h:57024**
— A surgery formula for the $\overline{\mu}$-invariant. (English summary) **2001g:57025**
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**Schwarz, Matthias** On the action spectrum for closed symplectically aspherical manifolds. (English summary) **2001c:53113**
**Seidel, Paul** Lagrangian two-spheres can be symplectically knotted. **2001g:53139**
— Graded Lagrangian submanifolds. (English and French summaries) **2001c:53114**
**Teleman, Andrei** *see* **Okonek, Christian, 2001d:57032**
**Tian, Gang** *see* **Liu, Gang, 2001g:53154**

## 57R60 Homotopy spheres, Poincaré conjecture

**Lance, Timothy L.** Differentiable structures on manifolds. **2001d:57035**

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**Grove, Karsten** (*with* Ziller, Wolfgang) Curvature and symmetry of Milnor spheres. **2001i:53047**
**Oledzki, Wieslaw J.** Exotic involutions of low-dimensional spheres and the eta-invariant. (English summary) **2001a:57045**
**Ziller, Wolfgang** *see* **Grove, Karsten, 2001i:53047**

## 57R65 Surgery and handlebodies

**Browder, William** Differential topology of higher-dimensional manifolds. **2001d:57036**
**Hutt, Steven** ★ Introduction to the classification of manifolds. **2001a:57050**
**Levine, Jerome** (*with* Orr, Kent E.) A survey of applications of surgery to knot and link theory. **2001e:57034**
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**Endo, Hisaaki** Meyer's signature cocycle and hyperelliptic fibrations. (English summary) **2001b:57047**
**Goodwillie, Thomas G.** (*with* Klein, John R.; Weiss, Michael S.) Spaces of smooth embeddings, disjunction and surgery. (English summary) **2001m:57053**
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**(Ranicki, Andrew)** *see* **Surveys on surgery theory, 2001i:57001**
**Rieck, Yo'av** (*with* Sedgwick, Eric) Persistence of Heegaard structures under Dehn filling. (English summary) **2001k:57021**
**(Rosenberg, Jonathan)** *see* **Surveys on surgery theory, 2001i:57001**
**Sedgwick, Eric** *see* **Rieck, Yo'av, 2001k:57021**
**Stipsicz, András I.** On the vanishing of the third spin cobordism group $\Omega_3^{\text{Spin}}$. (English and Russian summaries) **2001k:57041**
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## 57R67 Surgery obstructions, Wall groups [see also 19J25]

**Brown, Edgar H., Jr.** The Kervaire invariant and surgery theory. (English summary) **2001d:57037**
**Kreck, Matthias** Surgery and duality. **2001a:57051**
**Morimoto, Masaharu** Equivariant surgery with middle dimensional singular sets. II. Equivariant framed cobordism invariance. (English summary) **2001m:57060**
**Pedersen, Erik Kjær** Continuously controlled surgery theory. **2001a:57052**
**Rosenberg, Jonathan** Reflections on C. T. C. Wall's work on cobordism. (*see* **2001i:57001**)
**Roushon, Sayed K.** $L$-theory of 3-manifolds with nonvanishing first Betti number. **2001b:57075**
— Vanishing structure set of Haken 3-manifolds. (English summary) **2001m:57061**
**(Wall, C. T. C.)** *see* **Rosenberg, Jonathan, (2001i:57001)**

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**Ferry, Steven C.** (*with* Ranicki, Andrew) A survey of Wall's finiteness obstruction. **2001m:19009**
**Goldfarb, Boris** Novikov conjectures and relative hyperbolicity. (English summary) **2001a:19004**
**Hambleton, Ian** (*with* Taylor, Laurence R.) A guide to the calculation of the surgery obstruction groups for finite groups. (English summary) **2001e:19007**
**Johnston, Heather** (*with* Ranicki, Andrew) Homology manifold bordism. (English summary) **2001g:57043**
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**Roe, John** Surgery and $C^*$-algebras. **2001f:46108**
**Roushon, Sayed K.** Surgery groups of submanifolds of $S^3$. (English summary) **2001b:19002**
**Taylor, Laurence R.** *see* **Hambleton, Ian, 2001e:19007**

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**Andrica, Dorin** Functions with minimal critical set: new results and open problems. (English summary) **2001g:57064**
**Bondar', O. P.** On the existence of Morse-Bott functions. (Russian. English, Russian and Ukrainian summaries) (*see* **2001e:00015**)
**Chiappinelli, Raffaele** On the number of critical points of a $C^1$ function on the sphere. (English summary) **2001h:57041**
**Farber, Michael S.** Morse-Novikov critical point theory, Cohn localization and Dirichlet units. (English summary) **2001g:57065**
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**Khimshiashvili, G.** (*with* Siersma, Dirk) Minimal round functions on low-dimensional manifolds. (English summary)
**Kulinich, E. V.** (*with* Prishlyak, A. O.) On graphs as critical levels of a function on a surface. (Russian) **2001a:57053**
**Maksimenko, S. Ĭ.** Equivalence of $m$-functions on surfaces. (Ukrainian) **2001c:57033**
— Components of spaces of Morse mappings. (Russian) **2001a:57054**
**Novikov, Sergeĭ Petrovich** Levels of quasiperiodic functions on a plane, and Hamiltonian systems. (Russian) **2001k:57038**
**Pintea, C.** Differentiable mappings with an infinite number of critical points. (English summary) **2001b:57076**
**Prishlyak, A. O.** *see* **Kulinich, E. V., 2001a:57053**
**Satoh, Shin** Simplex moves on elementary surfaces. **2001e:57035**
**Sharko, V. V.** Functions on surfaces. I. (Russian) **2001j:57042**
**Siersma, Dirk** *see* **Khimshiashvili, G.**
**Vakhrameev, S. A.** Morse lemmas for smooth functions on manifolds with corners. **2001j:57043**

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**Álvarez Paiva, Juan Carlos** Contact topology, taut immersions, and Hilbert's fourth problem. (English summary) **2001f:53161**
**Anisov, Sergeĭ S.** (*with* Lando, Sergei) Topological complexity of $T^2$-bundles over the circle. (English summary) **2001a:57040**
**Bondar', O. P.** On some functions on three-dimensional manifolds. (Russian) **2001a:57029**
**Champanerkar, Abhijit** (*with* Kumar, Ajit$^2$; Kumaresan, S.) Classification of surfaces via Morse theory. **2001d:57021**
**Cruz, R. N.** (*with* de Rezende, K. A.) Gradient-like flows on high-dimensional manifolds. (English summary) **2001a:37026**
**Dynnikov, I. A.** Geometry of the stability zones in the Novikov problem on the semiclassical motion of an electron. (Russian) **2001i:37034**
**Èsterov, A. I.** Densities of Betti numbers of sets of smaller values of quasiperiodic functions. (Russian) **2001j:58061**
**Fel'shtyn, A. L.** (*with* Sánchez-Morgado, Héctor) Reidemeister torsion and integrable Hamiltonian systems. (English summary) **2001j:37104**
**Jongen, Hubertus Th.** (*with* Jonker, Peter; Twilt, Frank) ★ Nonlinear optimization in finite dimensions. (English summary) **2001i:90002**
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**Klaus, Stephan** On the homotopy relation and self equivalences. (English summary) **2001i:55010**
**Kudryavtseva, E. A.** Reduction of Morse functions on surfaces to canonical form by smooth deformation. (English and Russian summaries) **2001f:58080**
**Kumar, Ajit$^2$** *see* **Champanerkar, Abhijit et al., 2001d:57021**
**Kumaresan, S.** *see* **Champanerkar, Abhijit et al., 2001d:57021**
**Lando, Sergei** *see* **Anisov, Sergeĭ S., 2001a:57040**
**Langevin, Rémi** ★ Introduction to integral geometry. **2001a:53115**
**Latschev, Janko** Gradient flows of Morse-Bott functions. **2001m:58026**
**Manturov, V. O.** Bifurcations, atoms and knots. (Russian. Russian summary) **2001d:37092**
**Moyaux, Pierre-Marie** Lower bounds for the relative Lusternik-Schnirelmann category. (English summary) **2001f:55006**
**Netsvetaev, N. Yu.** On the connected sum decomposition of complex hypersurfaces with quadratic singularities. (Russian. English and Russian summaries) **2001g:32067**
**Pazhitnov, Andrei Vladimirovich** $C^0$-generic properties of boundary operators in the Novikov complex. **2001b:58021**
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**Sánchez-Morgado, Héctor** *see* **Fel'shtyn, A. L., 2001j:37104**
**Shida, Masayuki** Fundamental theorems of Morse theory for optimization on manifolds with corners. (English summary) **2001i:90114**
**Thaddeus, Michael** A perfect Morse function on the moduli space of flat connections. (English summary) **2001h:53123**
**Twilt, Frank** *see* **Jongen, Hubertus Th. et al., 2001i:90002**

## 57R75 O- and SO-cobordism

**Szűcs, András** The fourth oriented cobordism group $\Omega_4$ is isomorphic to $\mathbb{Z}$. (English and Russian summaries) **2001k:57039**
**Upadhyay, Shashidhar** A bounding question for almost flat manifolds. (English summary) **2001h:57042**
**Wang, Yan Ying** Characteristic numbers and cobordism classes of fiberings with fiber $\mathbb{RP}(2k)$. (English summary) **2001f:57035**

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**Das, Ashish Kumar** *see* **Khare, S. S., 2001i:57042**
**Khare, S. S.** (*with* Das, Ashish Kumar) Which Milnor manifolds bound? (English summary) **2001i:57042**
**Klaus, Stephan** On the homotopy relation and self equivalences. (English summary) **2001i:55010**
**Pergher, Pedro L. Q.** $(Z_2)^k$-actions whose fixed data has a section. (English summary) **2001j:57044**

## 57R77 Complex cobordism (U- and SU-cobordism) [see also 55N22]

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**Baker, Andrew J.** (*with* Özel, C.) Complex cobordism of Hilbert manifolds with some applications to flag varieties of loop groups. (English summary) **2001f:55007**
**Kamiyama, Yasuhiko** Chern numbers of the moduli space of spatial polygons. (English summary) **2001h:57031**
**Kriz, Igor** The $\mathbb{Z}/p$-equivariant complex cobordism ring. **2001b:55010**
**Özel, C.** *see* **Baker, Andrew J., 2001f:55007**

## 57R80 $h$- and $s$-cobordism

**Fukumoto, Yoshihiro** (*with* Furuta, Mikio) Homology 3-spheres bounding acyclic 4-manifolds. (English summary) **2001m:57063**
**Furuta, Mikio** *see* **Fukumoto, Yoshihiro, 2001m:57063**

Items with secondary classifications in 57R80

**Fukumoto, Yoshihiro** On an invariant of plumbed homology 3-spheres. (English summary) **2001m:57032**
**Hutt, Steven** ★ Introduction to the classification of manifolds. **2001a:57050**

## 57R85 Equivariant cobordism

**Ding, Yan Hong** (*with* Wang, Yan Ying; Huang, Wei) Determination of the groups $J^{h_1h_2\cdots h_m}_{n,k}$. (Chinese. English and Chinese summaries)
**Huang, Wei** *see* **Ma, Kai et al.** *and* **Ding, Yan Hong et al.**
**Kamata, Masayoshi** On equivariant cobordism classes of projective spaces for complex U(1)-representation spaces. **2001f:57036**
**Liu, Xibo** *see* **Lü, Zhi, 2001d:57038**
**Lü, Zhi** (*with* Liu, Xibo) Involutions fixing the disjoint union of 3-real projective space with Dold manifold. (English summary) **2001d:57038**

**Ma, Kai** (*with* Wang, Yan Ying; Huang, Wei) Determination of the groups $J^{2^k+2}_{n,k}$. (Chinese. English and Chinese summaries)
**Mukherjee, Goutam** Cobordism of manifolds with $Z_2 \times Z_2$-action having isolated stationary points. (English summary) **2001i:57049**
**Pergher, Pedro L. Q.** $(Z_2)^4$-actions whose fixed data has a section. (English summary) **2001j:57044**
**Wang, Yan Ying** *see* **Ma, Kai et al.** *and* **Ding, Yan Hong et al.**

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**Ginzburg, Viktor L.** (*with* Guillemin, Victor W.; Karshon, Yael) Assignments and abstract moment maps. (English summary) **2001k:53161**
**Guillemin, Victor W.** *see* **Ginzburg, Viktor L. et al., 2001k:53161**
**Hara, Tamio** Equivariant cutting and pasting of $G$ manifolds. (English summary) **2001f:57038**
**Karshon, Yael** *see* **Ginzburg, Viktor L. et al., 2001k:53161**

## 57R90 Other types of cobordism [see also 55N22]

**Bakuradze, M.** On symplectic cobordism of real projective plane. (English summary) **2001e:57036**
**Druschel, K. S.** The cobordism of oriented three dimensional orbifolds. (English summary) **2001k:57040**
**Long, D. D.** (*with* Reid, A. W.) On the geometric boundaries of hyperbolic 4-manifolds. (English summary) **2001e:57037**
**Reid, A. W.** *see* **Long, D. D., 2001e:57037**
**Stipsicz, András I.** On the vanishing of the third spin cobordism group $\Omega_3^{\text{Spin}}$. (English and Russian summaries) **2001k:57041**

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**Chekanov, Yu. V.** Lagrangian embeddings and Lagrangian cobordism. (English summary) **2001e:53083**
**Gini, Rosa** Cobordism of immersions of surfaces in non-orientable 3-manifolds. (English summary) **2001m:57054**
**Jahren, Bjørn** $K$-theory, flat bundles and the Borel classes. (English summary) **2001e:19004**
**Kuramoto, Yoshiyuki** (*with* Yasui, Tsutomu) On conditions that a map is cobordant to an embedding. (English summary) **2001f:57031**
**Liu, Xibo** *see* **Lü, Zhi, 2001d:57038**
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**Minami, Haruo** Quotients of exceptional Lie groups as framed boundaries. **2001c:22023**
**Morava, J.** Cobordism of symplectic manifolds and asymptotic expansions. (English summary) **2001a:53127**
**Petean, Jimmy** The Yamabe invariant of simply connected manifolds. (English summary) **2001g:53075**
**Yasui, Tsutomu** *see* **Kuramoto, Yoshiyuki, 2001f:57031**
**Zvagel'skiĭ, M. Yu.** Cobordisms of embeddings of codimension 2. (Russian. English and Russian summaries) **2001e:57032**

## 57R91 Equivariant algebraic topology of manifolds

Items with secondary classifications in 57R91

**Barrera-Yanez, Egidio** The eta invariant of twisted products of even-dimensional manifolds whose fundamental group is a cyclic 2 group. (English summary) **2001a:58033**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Liu, Kefeng** (*with* Ma, Xiaonan; Zhang, Wei Ping[1]) Rigidity and vanishing theorems in $K$-theory. (English and French summaries) **2001j:58039**
— (*with* Ma, Xiaonan) On family rigidity theorems. I. **2001j:58038**
**Ma, Xiaonan** *see* **Liu, Kefeng et al., 2001j:58038** *and* **2001j:58039**
**Morimoto, Masaharu** Equivariant surgery with middle dimensional singular sets. II. Equivariant framed cobordism invariance. (English summary) **2001m:57060**
**Rourke, Colin** (*with* Sanderson, Brian) Equivariant configuration spaces. (English summary) **2001h:55014**
**Sanderson, Brian** *see* **Rourke, Colin, 2001h:55014**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**
**Zhang, Wei Ping[1]** *see* **Liu, Kefeng et al., 2001j:58039**

## 57R95 Realizing cycles by submanifolds

**Bekka, Karim** (*with* Murolo, Claudio) Homologie d'espaces stratifiés. (English and French summaries) [Homology of stratified spaces] **2001m:57064**
**Murolo, Claudio** *see* **Bekka, Karim, 2001m:57064**

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**Abánades, M.** (*with* Kucharz, W.) Algebraic equivalence of real algebraic cycles. **2001a:14061**
**Fintushel, Ronald** (*with* Stern, Ronald John) Symplectic surfaces in a fixed homology class. **2001j:57036**
**Kucharz, W.** *see* **Abánades, M., 2001a:14061**
**Stern, Ronald John** *see* **Fintushel, Ronald, 2001j:57036**
**Vitushkin, A. G.** Description of the homology of a ramified covering of $\mathbf{C}^2$. (Russian. Russian summary) **2001j:57037**

## 57R99 None of the above, but in this section

**Apéry, François** (*with* Franzoni, Gregorio) The eversion of the sphere: a material model of the central phase. (Italian. French summary) **2001g:57066**
**Franzoni, Gregorio** *see* **Apéry, François, 2001g:57066**
**Higson, Nigel** (*with* Roe, John) Amenable group actions and the Novikov conjecture. (English summary) **2001h:57043**
**Roe, John** *see* **Higson, Nigel, 2001h:57043**

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**Balan, A. P. M.** *see* **Kouneiher, J., 2001j:03113**
**Berarducci, Alessandro** (*with* Otero, Margarita) Intersection theory for o-minimal manifolds. (English summary) **2001m:03074**
**Jahn, O.** Instantons and monopoles in general abelian gauges. (English summary) **2001i:81166**
**Kawakami, Tomohiro** Locally Nash structures of $G$ manifolds. (English summary) **2001f:14100**
**Kim, Inkang** Geometrical finiteness of symmetric spaces of noncompact type. (English summary) **2001b:53041**
**Kouneiher, J.** (*with* Balan, A. P. M.) Propositional manifolds and logical cohomology. (English summary) **2001j:03113**
**Otero, Margarita** *see* **Berarducci, Alessandro, 2001m:03074**
**Repovš, Dušan D.** *see* **Shchepin, E. V., 2001f:58005**
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**Solov'ëv, Yurii Petrovich** (*with* Troitskiĭ, E. V.) ★ $C^*$-algebras and elliptic operators in differential topology. (English summary) **2001f:58050**
**(Sosinskiĭ, A. B.)** *see* **Solov'ëv, Yurii Petrovich, 2001f:58050**
**Troitskiĭ, E. V.** *see* **Solov'ëv, Yurii Petrovich, 2001f:58050**

# 57Sxx Topological transformation groups [see also 20F34, 22–XX, 37–XX, 54H15, 58D05]

## 57S05 Topological properties of groups of homeomorphisms or diffeomorphisms

**Abe, Kōjun** (*with* Fukui, Kazuhiko) On the structure of automorphisms of manifolds. (English summary) **2001d:57039**
**Fukui, Kazuhiko** *see* **Abe, Kōjun, 2001d:57039**
**Hambleton, Ian** (*with* Pedersen, Erik Kjær) Compactifying infinite group actions. (English summary) **2001g:57067**
**Pedersen, Erik Kjær** *see* **Hambleton, Ian, 2001g:57067**

Items with secondary classifications in 57S05

**Abreu, Miguel** (*with* McDuff, Dusa) Topology of symplectomorphism groups of rational ruled surfaces. **2001k:57035**
**Junghenn, Hugo Dieter** (*with* Milnes, Paul) Analysis on a discrete 6-dimensional nilpotent group. (English summary) **2001d:22004**
**Lü, Zhi** A note on Brieskorn spheres and the generalized Smith conjecture. **2001i:57036**
**McDuff, Dusa** *see* **Abreu, Miguel, 2001k:57035**
**Milnes, Paul** *see* **Junghenn, Hugo Dieter, 2001d:22004**
**Omori, Masaki** A note on twisted linear actions of $\mathrm{SL}(n, \mathbf{C})$ and $\mathrm{SL}(n, \mathbf{H})$. **2001c:57038**
**Shalen, Peter B.** Three-manifold topology and the tree for $\mathrm{PSL}_2$: the Smith conjecture and beyond. (English summary) **2001b:57038**
**Shimomura, Hiroaki** 1-cocycles on the group of diffeomorphisms. II. **2001b:22018**
— Unitary representations and 1-cocycles on the group of diffeomorphisms. (English summary) **2001a:22016**
**Sprows, David J.** Local subhomeotopy groups of bounded surfaces. (English summary) **2001g:57042**
**Yagasaki, Tatsuhiko** Homotopy types of homeomorphism groups of noncompact 2-manifolds. (English summary) **2001j:57023**

## 57S10 Compact groups of homeomorphisms

**Clapp, Mónica** (*with* Marzantowicz, Wacław) Essential equivariant maps and Borsuk-Ulam theorems. (English summary) **2001c:57034**
**Marzantowicz, Wacław** *see* **Clapp, Mónica, 2001c:57034**

Items with secondary classifications in 57S10

**Antonyan, S. A.** The topology of the Banach-Mazur compactum. (English summary) **2001k:57026**
**Biller, Harald** Actions of compact groups on compact $(4, m)$-quadrangles. (English summary) **2001m:51021**
**Hilali, Mohamed Rachid** Sur la conjecture de Halperin relative au rang torique. (English summary) [Halperin's conjecture concerning the torus rank] **2001c:55008**

## 57S15 Compact Lie groups of differentiable transformations

**Balanov, Z.** (*with* Krawcewicz, Wieslaw; Kushkuley, A.) Brouwer degree, equivariant maps and tensor powers. (English summary) **2001d:57040**
**Calaza, Manuel** A Witten style proof of Morse inequalities for orbit spaces. (English summary) **2001e:57038**
**Chaves, Lucas M.** (*with* Rigas, A. G.) From the triality viewpoint. (English summary) **2001c:57035**
**Grove, Karsten** (*with* Searle, Catherine) Global $G$-manifold reductions and resolutions. (English summary) **2001g:57068**
**Hauschild, Volker** Rational homotopy of circle actions. (English summary) **2001e:57039**
**Khare, S. S.** Bordism, group action and fixed points set. (English summary)
**Krawcewicz, Wieslaw** *see* **Balanov, Z. et al., 2001d:57040**
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**Egilsson, Ágúst Sverrir** Linear Hamiltonian circle actions that generate minimal Hilbert bases. (English and French summaries) **2001k:53156**
**Fang, Fuquan** (*with* Rong, Xiaochun) Fixed point free circle actions and finiteness theorems. (English summary) **2001d:53044**
**Farber, Michael S.** Signature in terms of Novikov numbers. (Russian) **2001f:57029**
**Grove, Karsten** (*with* Ziller, Wolfgang) Curvature and symmetry of Milnor spheres. **2001i:53047**
**Kriegl, A.** *see* **Alekseevskiĭ, D. V. et al., 2001g:22032**
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**Lott, John** Signatures and higher signatures of $S^1$-quotients. (English summary) **2001f:58048**
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**Montaldi, James** (*with* Roberts, Richard Mark) Note on semisymplectic actions of Lie groups. (English and French summaries) **2001f:53160**
**O'Shea, Luis** (*with* Sjamaar, Reyer) Moment maps and Riemannian symmetric pairs. (English summary) **2001g:53146**
**Paradan, Paul-Emile** Formules de localisation en cohomologie equivariante. (English and French summaries) [Localization formulas in equivariant cohomology] **2001f:53175**
— The moment map and equivariant cohomology with generalized coefficients. (English summary) **2001h:53120**
**Podestà, Fabio** (*with* Thorbergsson, Gudlaugur) Polar actions on rank-one symmetric spaces. (English summary) **2001j:53064**
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**Schmah, T. I.** Torus actions on symplectic orbi-spaces. (English summary) **2001g:53147**
**Sjamaar, Reyer** *see* **O'Shea, Luis, 2001g:53146**
**Thorbergsson, Gudlaugur** *see* **Podestà, Fabio, 2001j:53064**
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**Wu, Siye** Equivariant holomorphic Morse inequalities. II. Torus and non-abelian group actions. (English summary) **2001g:58034**
**Ziller, Wolfgang** *see* **Grove, Karsten, 2001i:53047**

## 57S17 Finite transformation groups

**Ding, Yan Hong** (*with* Wu, Zhen De; Wang, Yan Ying) $Z_2$-fixed sets of almost free $Z_{2^r}$-actions. (Chinese. English and Chinese summaries) **2001d:57041**
**Dotzel, Ronald M.** (*with* Singh, Tej B.; Tripathi, Satya P.) The cohomology rings of the orbit spaces of free transformation groups of the product of two spheres. (English summary) **2001f:57037**
**Hara, Tamio** $SK$ invariants on closed $Z_{2^r}$ manifolds. **2001h:57045**
— Equivariant cutting and pasting of $G$ manifolds. (English summary) **2001f:57038**
**Liu, Zong-ze** *see* **Sun, Shu-ying, 2001i:57052**
**Morimoto, Masaharu** (*with* Sumi, Toshio; Yanagihara, Mamoru) Finite groups possessing gap modules. (English summary) **2001i:57050**
**Pawałowski, Krzysztof** Smith equivalence of group modules and the Laitinen conjecture. A survey. **2001i:57051**
**Singh, Tej B.** *see* **Dotzel, Ronald M. et al., 2001f:57037**
**Sumi, Toshio** *see* **Morimoto, Masaharu et al., 2001i:57050**
**Sun, Shu-ying** (*with* Liu, Zong-ze) Cohomology complex projective space with actions of $G_3$. (English summary) **2001i:57052**
**Tripathi, Satya P.** *see* **Dotzel, Ronald M. et al., 2001f:57037**
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**Wu, Zhen De** *see* **Ding, Yan Hong et al., 2001d:57041**
**Yanagihara, Mamoru** *see* **Morimoto, Masaharu et al., 2001i:57050**

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**Ding, Yan Hong** (*with* Wang, Yan Ying; Huang, Wei) Determination of the groups $J^{\lambda_1\lambda_2\cdots\lambda_r}_{n,k}$. (Chinese. English and Chinese summaries)
**Golasiński, Marek** (*with* Gonçalves, Daciberg Lima) Equivariant Gottlieb groups. (French summary) **2001m:55036**
**Gonçalves, Daciberg Lima** *see* **Golasiński, Marek, 2001m:55036**
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**Jiménez, Rolando** *see* **Ageev, Sergei M. et al., 2001g:54012**
**Kawakami, Tomohiro** Locally Nash structures of $G$ manifolds. (English summary) **2001f:14100**
**Kim, Jin-Hong** On spin $\mathbf{Z}/2^p$-actions on spin 4-manifolds. (English summary) **2001g:57061**
**Ma, Kai** (*with* Wang, Yan Ying; Huang, Wei) Determination of the groups $J^{2^k+2}_{n,k}$. (Chinese. English and Chinese summaries)
**Morimoto, Masaharu** (*with* Pawałowski, Krzysztof) Equivariant wedge sum construction of finite contractible $G$-CW complexes with $G$-vector bundles. **2001a:57055**
**Mukherjee, Goutam** Cobordism of manifolds with $Z_2 \times Z_2$-action having isolated stationary points. (English summary) **2001i:57049**
**Oledzki, Wieslaw J.** Exotic involutions of low-dimensional spheres and the eta-invariant. (English summary) **2001a:57045**
**Pawałowski, Krzysztof** *see* **Morimoto, Masaharu, 2001a:57055**
**Reni, Marco** On finite groups acting on homology 3-spheres. (English summary) **2001j:57021**
**Wanderley, Marcus** Free actions of cyclic and dihedral groups on handlebodies. (English summary) **2001f:57020**
**Wang, Yan Ying** *see* **Ma, Kai et al.** *and* **Ding, Yan Hong et al.**
**Yalçin, Ergün** Free actions of $p$-groups on products of lens spaces. (English summary) **2001j:57046**

## 57S20 Noncompact Lie groups of transformations

**Dekimpe, Karel** (*with* Igodt, Paul) Polynomial alternatives for the group of affine motions. (English summary) **2001k:57042**
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**Güner, Necdet** A Borsuk-Ulak theorem for Heisenberg group actions. (English summary) [A Borsuk-Ulam theorem for Heisenberg group actions] **2001j:55003**
**Illman, Sören** (*with* Kankaanrinta, Marja) A new topology for the set $C^{\infty,G}(M,N)$ of $G$-equivariant smooth maps. **2001f:58024**
— (*with* Kankaanrinta, Marja) Three basic results for real analytic proper $G$-manifolds. **2001f:58025**
**Kankaanrinta, Marja** *see* **Illman, Sören, 2001f:58024** *and* **2001f:58025**
**Loose, Frank** A remark on the reduction of Cauchy-Riemann manifolds. (English summary) **2001f:53174**
**Löwe, Harald** Noncompact, almost simple groups operating on locally compact, connected translation planes. (English summary) **2001a:51011**
**Omori, Masaki** A note on twisted linear actions of $\mathrm{SL}(n,\mathbf{C})$ and $\mathrm{SL}(n,\mathbf{H})$. **2001c:57038**
**Polulyakh, E. A.** On the embedding of total spaces of fiber bundles over a circle with the Cantor set as a fiber into two-dimensional manifolds. (Russian. English, Russian and Ukrainian summaries) **2001h:37019**
**Spatzier, Ralf J.** *see* **Goetze, Edward R., 2001c:37029**
**Yang, Xiao Song** A remark on global Poincaré section and suspension manifold. (English summary) **2001b:37028**

## 57S25 Groups acting on specific manifolds

**Bukhshtaber, V. M.** (*with* Panov, Taras E.) Torus actions determined by simple polytopes. (English summary) **2001h:57046**
**Kamishima, Yoshinobu** Holomorphic torus actions on compact locally conformal Kähler manifolds. (English summary) **2001k:57043**
**Lü, Zhi** The generalized Smith conjecture of codimension greater than two. (English summary) **2001d:57042**
**Morimoto, Masaharu** (*with* Pawałowski, Krzysztof) Equivariant wedge sum construction of finite contractible $G$-CW complexes with $G$-vector bundles. **2001a:57055**
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**Panov, Taras E.** *see* **Bukhshtaber, V. M., 2001h:57046**
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**Yalçin, Ergün** Free actions of $p$-groups on products of lens spaces. (English summary) **2001j:57046**

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**Adams, Scot** Locally free actions on Lorentz manifolds. (English summary) **2001h:22024**
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**Alekseev, Anton Yu.** Notes on equivariant localization. (English summary) **2001k:53158**
**Berlanga Zubiaga, Ricardo** (*with* Hernández Lamoneda, Luis; Sánchez Valenzuela, Adolfo) Introduction to the geometry of Lie groups. (Spanish) **2001i:22001**
**Ginzburg, Viktor L.** (*with* Guillemin, Victor W.; Karshon, Yael) Assignments and abstract moment maps. (English summary) **2001k:53161**
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**Hattori, Akio**[1] Almost complex toric manifolds and positive line bundles. (English summary) **2001a:58030**
**Hernández Lamoneda, Luis** *see* **Berlanga Zubiaga, Ricardo et al., 2001i:22001**
**Im, Sung Mo** (*with* Kim, Heung Ki) Compact flat manifolds with non-vanishing Stiefel-Whitney classes. (English summary) **2001i:57037**
**Karshon, Yael** *see* **Ginzburg, Viktor L. et al., 2001k:53161**
**Kashani, S. M. B.** *see* **Mirzaie, R., 2001g:53097**
**Kim, Heung Ki** *see* **Im, Sung Mo, 2001i:57037**
**Mirzaie, R.** (*with* Kashani, S. M. B.) Topological properties of some cohomogeneity one Riemannian manifolds of nonpositive curvature. (English summary) **2001g:53097**
**Mislin, Guido** (*with* Talelli, Olympia) On groups which act freely and properly on finite dimensional homotopy spheres. **2001i:20110**
**Morimoto, Masaharu** (*with* Sumi, Toshio; Yanagihara, Mamoru) Finite groups possessing gap modules. (English summary) **2001i:57050**
**Pawałowski, Krzysztof** Smith equivalence of group modules and the Laitinen conjecture. A survey. **2001i:57051**
**Reni, Marco** On finite groups acting on homology 3-spheres. (English summary) **2001j:57021**
**Sánchez Valenzuela, Adolfo** *see* **Berlanga Zubiaga, Ricardo et al., 2001i:22001**
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**Wanderley, Marcus** Free actions of cyclic and dihedral groups on handlebodies. (English summary) **2001f:57020**
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**Zimmermann, Bruno** Finite maximal orientation reversing group actions on handlebodies and 3-manifolds. (English summary) **2001b:57042**

## 57S30 Discontinuous groups of transformations

**Adem, Alejandro** (*with* Smith, Jeff H.) On spaces with periodic cohomology. (English summary) **2001d:57043**
**Akiyoshi, Hirotaka** An example of Kleinian groups with indiscrete horoball heights. (*see* **2001f:57001**)
**Charette, Virginie** (*with* Goldman, William M.) Affine Schottky groups and crooked tilings. **2001j:57047**
**Goldman, William M.** *see* **Charette, Virginie, 2001j:57047**
**Ha, Ku Yong** (*with* Jo, Jang Hyun; Lee, Jong Bum) Free group actions on spaces homotopy equivalent to a sphere. (English summary) **2001e:57040**
**Jo, Jang Hyun** *see* **Ha, Ku Yong et al., 2001e:57040**
**Kamishima, Yoshinobu** Classification of homogeneous complex affinely flat surfaces with compact quotients and applications to complex projective structures. (English summary) **2001j:57048**
— (*with* Udono, Tetsuro) On the fundamental groups of compact complete quaternionic affinely flat 2-manifolds. (English summary) **2001j:57049**
**Lee, Jong Bum** *see* **Ha, Ku Yong et al., 2001e:57040**
**Smith, Jeff H.** *see* **Adem, Alejandro, 2001d:57043**
**Udono, Tetsuro** *see* **Kamishima, Yoshinobu, 2001j:57049**

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**Anderson, James W.** (*with* Canary, Richard D.) Cores of hyperbolic 3-manifolds and limits of Kleinian groups. II. **2001h:30041**
**Baues, Oliver** Varieties of discontinuous groups. **2001i:58013**
**Benoist, Yves** Tores affines. (English summary) [Affine tori] **2001k:57025**
**Bonfert-Taylor, Petra** Jørgensen's inequality for discrete convergence groups. (English summary) **2001a:30056**
**Bowditch, B. H.** Convergence groups and configuration spaces. (English summary) **2001d:20035**
**Bridgeman, Martin** (*with* Taylor, Edward C.[2]) Length distortion and the Hausdorff dimension of limit sets. (English summary) **2001e:37058**
**Canary, Richard D.** *see* **Anderson, James W., 2001h:30041**
**Dekimpe, Karel** Polynomial structures on polycyclic groups: recent developments. (English summary) **2001i:20107**
**Dupont, Serge[2]** Variétés projectives à holonomie dans le groupe $\mathrm{Aff}^+(\mathbf{R})$. (English summary) [Projective manifolds with holonomy in the group $\mathrm{Aff}^+(\mathbf{R})$] **2001j:53058**
**Falbel, E.** (*with* Koseleff, P.-V.) Flexibility of ideal triangle groups in complex hyperbolic geometry. (English summary) **2001k:32047**
**Farb, Benson** (*with* Shalen, Peter B.) Lattice actions, 3-manifolds and homology. **2001b:57041**
**Glover, H. H.** (*with* Mislin, Guido) On the $p$-primary cohomology of $\mathrm{Out}(F_n)$ in the $p$-rank one case. (English summary) **2001k:20116**
**Goldfarb, Boris** Novikov conjectures and relative hyperbolicity. (English summary) **2001a:19004**
**Goldman, William M.** (*with* Margulis, Grigorii A.) Flat Lorentz 3-manifolds and cocompact Fuchsian groups. **2001m:53124**
**Hong, Sungbok** (*with* McCullough, Darryl) Concentration points for Fuchsian groups. (English summary) **2001f:20109**
**Hosaka, Tetsuya** On the cohomology of Coxeter groups. (Japanese) (*see* **2001a:54001**)
**Koseleff, P.-V.** *see* **Falbel, E., 2001k:32047**
**Lück, Wolfgang** The type of the classifying space for a family of subgroups. (English summary) **2001i:55018**
**Margulis, Grigorii A.** *see* **Goldman, William M., 2001m:53124**
**McCullough, Darryl** *see* **Hong, Sungbok, 2001f:20109**
**McMullen, Curtis T.** Hausdorff dimension and conformal dynamics. I. Strong convergence of Kleinian groups. (English summary) **2001c:37045**
**Minsky, Yair N.** Short geodesics and end invariants. (*see* **2001h:37090**)
**Mislin, Guido** *see* **Glover, H. H., 2001k:20116**
**Ordin, A. A.** A generalized barycentric subdivision of a triangle, and semigroups of Möbius transformations. (Russian) **2001h:51027**
**Park, Kyeongsu** Limit sets of projectively flat manifolds. (English summary) **2001h:53068**
**Salein, François** Variétés anti-de Sitter de dimension 3 exotiques. (English and French summaries) [Exotic three-dimensional anti-de Sitter manifolds] **2001h:57020**
**Shalen, Peter B.** *see* **Farb, Benson, 2001b:57041**
**Swenson, Eric L.** A cut point theorem for CAT(0) groups. (English summary) **2001i:20083**
**Taylor, Edward C.[2]** *see* **Bridgeman, Martin, 2001e:37058**
**Wilking, Burkhard** On fundamental groups of manifolds of nonnegative curvature. (English summary) **2001g:53076**
— Rigidity of group actions on solvable Lie groups. (English summary) **2001g:22021**

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**Farrell, F. T.** Fibered representations, an open condition. (English summary) **2001c:57025**
**Ferrario, Davide L.** A fixed point index for equivariant maps. (English summary) **2001b:55004**
**Heath, Philip R.** (*with* Keppelmann, Edward C.) Fibre techniques in Nielsen periodic point theory on nil and solvmanifolds. II. (English summary) **2001f:55004**
**Keppelmann, Edward C.** *see* **Heath, Philip R., 2001f:55004**
**Kim, Inkang** Rigidity of symmetric spaces. (English summary) **2001e:53045**
**Lee, Seoung Ho** A study on Reidemeister operation. (English summary) **2001b:55005**
**Neretin, Yurii A.** Notes on affine isometric actions of discrete groups. (English summary) **2001e:57019**

# 57Txx Homology and homotopy of topological groups and related structures

## 57T05 Hopf algebras [see also 16W30]

**Wilson, W. Stephen** Hopf rings in algebraic topology. (English summary) **2001j:57050**

### Items with secondary classifications in 57T05

**Baker, Andrew J.** On the cohomology of some Hopf algebroids and Hattori-Stong theorems. (English summary) **2001h:55007**
**Félix, Yves** Croissance polynomiale de certains espaces de lacets. (French summary) [Polynomial growth of certain loop spaces] **2001m:55029**
**Majewski, Martin** Rational homotopical models and uniqueness. (English summary) **2001e:55015**
**Popescu, Călin** Characteristic zero loop space homology of two-cones. (English summary) **2001f:55010**
**Tamanoi, Hirotaka** Spectra of BP-linear relations, $v_n$-series, and BP cohomology of Eilenberg-Mac Lane spaces. (English summary) **2001b:55023**

## 57T10 Homology and cohomology of Lie groups

**Furukawa, Yasukuni** On the cohomology maps mod $p$ induced by the inclusion maps of Lie groups. (English summary) **2001j:57051**
**Kuribayashi, Katsuhiko** (*with* Mimura, Mamoru; Tezuka, Michishige) A multiplication on the twisted tensor product. (*see* **2001d:20048**)
**Mimura, Mamoru** *see* **Kuribayashi, Katsuhiko et al., (2001d:20048)**
**Tezuka, Michishige** *see* **Kuribayashi, Katsuhiko et al., (2001d:20048)**
**Yau, Donald** Cohomology of unitary and symplectic groups. (English summary) **2001f:57039**

### Items with secondary classifications in 57T10

**Ishiguro, Kenshi** Classifying spaces and a subgroup of the exceptional Lie group $G_2$. (English summary) **2001m:55045**
**Landi, Claudia** Cohomology rings of Artin groups. (English and Italian summaries) **2001j:20082**
**Nishimura, Osamu** On the Hopf algebra structure of the mod 3 cohomology of the exceptional Lie group of type $E_6$. **2001j:55016**
— The Hopf algebra structure of the cohomology of the 3-connective fibre space over the special unitary group. **2001j:55017**
**Runde, Volker** Automatic continuity and second order cohomology. (English summary) **2001h:46091**
**Thomas, Charles B.** ★ Elliptic cohomology. (English summary) **2001b:55015**

## 57T15 Homology and cohomology of homogeneous spaces of Lie groups

**Hirato, Yoshihiro** (*with* Kachi, Hideyuki; Mimura, Mamoru) Homotopy groups of the homogeneous spaces $F_4/G_2$, $F_4/\mathrm{Spin}(9)$ and $E_6/F_4$. (English summary) **2001m:57065**
**Kachi, Hideyuki** *see* **Hirato, Yoshihiro et al., 2001m:57065**
**Mimura, Mamoru** *see* **Hirato, Yoshihiro et al., 2001m:57065**
**Terzich, Svetlana** Generalized symmetric spaces and their topology. (Russian. Russian summary) **2001h:57047**

### Items with secondary classifications in 57T15

**Barufatti, Nelza E.** (*with* Hacon, Derek) $K$-theory of projective Stiefel manifolds. (English summary) **2001b:55008**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Hacon, Derek** *see* **Barufatti, Nelza E., 2001b:55008**
**Karpenko, Nikita A.** Cohomology of relative cellular spaces and of isotropic flag varieties. (Russian. Russian summary) **2001c:14076**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**

## 57T25 Homology and cohomology of $H$-spaces

**Hamanaka, Hiroaki** Homology ring mod 2 of free loop groups of spinor groups. (English summary) **2001j:57052**

### Items with secondary classifications in 57T25

**Félix, Yves** Croissance polynomiale de certains espaces de lacets. (French summary) [Polynomial growth of certain loop spaces] **2001m:55029**
**Nishimura, Osamu** On the Hopf algebra structure of the mod 3 cohomology of the exceptional Lie group of type $E_6$. **2001j:55016**
— The Hopf algebra structure of the cohomology of the 3-connective fibre space over the special unitary group. **2001j:55017**
**Popescu, Călin** Characteristic zero loop space homology of two-cones. (English summary) **2001f:55010**
**Tamanoi, Hirotaka** Spectra of BP-linear relations, $v_n$-series, and BP cohomology of Eilenberg-Mac Lane spaces. (English summary) **2001b:55023**

## 57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

Items with secondary classifications in 57T35

**Casas Miras, José Manuel** (*with* Pirashvili, Teimuraz) Ten-term exact sequence of Leibniz homology. (English summary) **2001g:17003**

**Pirashvili, Teimuraz** *see* **Casas Miras, José Manuel, 2001g:17003**

## 57T99 None of the above, but in this section

**Hamanaka, Hiroaki** (*with* Kono, Akira[1]) Homotopy-commutativity in spinor groups. **2001k:57044**

**Kono, Akira[1]** *see* **Hamanaka, Hiroaki, 2001k:57044**

Items with secondary classifications in 57T99

**Ōshima, Hideaki** Self homotopy group of the exceptional Lie group $G_2$. **2001f:55013**

# 58–XX Global analysis, analysis on manifolds {For geometric integration theory, see 49Q15.}

## 58–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Broer, H. W.** ★ Meetkunde en fysica. (Dutch. Dutch summary) [Geometry and physics] **2001f:58001**
**Hansen, Vagn Lundsgaard** ★ Fundamental concepts in modern analysis. **2001f:58002**
**Jänich, Klaus** ★ Vector analysis. (English summary) **2001m:58001**
**(Kay, Leslie)** *see* **Jänich, Klaus, 2001m:58001**
**Laos, N. K.** ★ Topics in mathematical analysis and differential geometry. **2001f:58003**

Items with secondary classifications in 58–01

**Aubin, Thierry** ★ A course in differential geometry. (English summary) **2001m:53001**
**Bibikov, Yu. N.** ★ Дифференциальные уравнения на гладких многообразиях. (Russian. Russian summary) [Differential equations on smooth manifolds] **2001f:37023**
**Storch, Uwe** (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik. Band 4. (German. German summary) [Textbook of mathematics. Vol. 4] **2001m:00001**
**Talpaert, Yves** ★ Differential geometry with applications to mechanics and physics. (English summary) **2001d:53001**
**Wiebe, Hartmut** *see* **Storch, Uwe, 2001m:00001**

## 58–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 58–02

**(Atiyah, Michael)** *see* **Donaldson, S. K., 2001j:01045**
**Donaldson, S. K.** Geometry in Oxford c. 1980–85. **2001j:01045**
**Helgason, Sigurdur** ★ Groups and geometric analysis. (English summary) **2001h:22001**
**Hu, Shouchuan** (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. II. (English summary) **2001g:49001**
**Landa, P. S.** ★ Нелинейные колебания и волны. (Russian. Russian summary) [Nonlinear oscillations and waves] **2001h:00011**
**Mangiarotti, Luigi** (*with* Sardanashvili, G. A.) ★ Connections in classical and quantum field theory. **2001h:53033**
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# 58Axx General theory of differentiable manifolds [see also 32Cxx]

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— The natural operators lifting vector fields to generalized higher order tangent bundles. (English summary) **2001g:58006**
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**Abouqateb, Abdelhak** Courants invariants par une action propre. (English summary) [Currents that are invariant under a proper action] **2001b:58005**

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## 58A35 Stratified sets [see also 32S60]

**Noirel, Laurent** (*with* Trotman, David) Subanalytic and semialgebraic realisations of abstract stratified sets. (English summary) **2001h:58006**
**Orro, Patrice** (*with* Trotman, David) Cône normal à une stratification régulière. (English and French summaries) [Normal cone in a regular stratification] **2001m:58005**
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**Cherenack, Paul** Applications of Frölicher spaces to cosmology. **2001j:58006**
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**Bruzzo, Ugo** (*with* Pestov, Vladimir) On the notion of compactness in supergeometry. (English summary) **2001i:58006**
**Deligne, Pierre** (*with* Morgan, John W.) Notes on supersymmetry (following Joseph Bernstein). **2001g:58007**
**Gates, S. James, Jr.** Ectoplasm has no topology: the prelude. (English summary) **2001a:58003**
**Grosse, Harald** (*with* Reiter, Gert) Graded differential geometry of graded matrix algebras. (English summary) **2001b:58008**
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**Landi, Giovanni** Projective modules of finite type over the supersphere $S^{2,2}$. (English summary) **2001m:58006**
**Leslie, Joshua A.** An inverse problem in super geometry. (English summary) **2001d:58005**
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**Park, Jeong-Hyuck** Superconformal symmetry in three dimensions. (English summary) **2001h:58007**
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**Kosmann-Schwarzbach, Yvette** Odd and even Poisson brackets. (English summary) **2001h:53117**
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**Leites, D. A.** How to superize Liouville equation. (English summary) **2001i:35209**
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**Onishchik, A. L.** On supermanifolds associated with the cotangent bundle. (*see* 2001f:58004)
**Sánchez-Valenzuela, O. A.** (*with* Victoria-Monge, Carles) Classification of integration patterns on $\mathbf{R}^{1|1}$. (English summary) **2001j:58016**
**Sardanashvili, G. A.** SUSY-extended field theory. (English summary) **2001i:58035**
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**Sushch, V. N.** Discrete models on the two-dimensional sphere. (Ukrainian. English summary) **2001d:58002**

# 58Bxx Infinite-dimensional manifolds

## 58B05 Homotopy and topological questions

**Fujiwara, Shigeki** On the topology of gauge groups. (English summary) **2001i:58007**

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**Baker, Andrew J.** (*with* Özel, C.) Complex cobordism of Hilbert manifolds with some applications to flag varieties of loop groups. (English summary) **2001f:55007**
**Bassetto, A.** (*with* Griguolo, L.; Vian, Federica) Wilson loops in the adjoint representation and multiple vacua in two-dimensional Yang-Mills theory. (English summary) **2001i:81163**
**Griguolo, L.** *see* **Bassetto, A. et al., 2001i:81163**
**Lyudkovskiĭ, S. V.** Quasi-invariant measures on loop groups of Riemannian manifolds. (Russian) **2001e:22012**
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## 58B10 Differentiability questions

**Canarutto, Daniel** Smooth bundles of generalized half-densities. (English summary) **2001b:58009**
**Ma, Jipu** Local conjugacy theorem, rank theorems in advanced calculus and a generalized principle for constructing Banach manifolds. (English summary) **2001j:58007**
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**Cao, Jusheng** *see* **Wang, Mao Nan et al., 2001f:46113**
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## 58B12 Questions of holomorphy [see also 32–XX, 46G20]

**Doi, Hideo** A holomorphic structure on a homogeneous space of the diffeomorphism group of a circle. (English summary) **2001b:58010**

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**Chen, Hong Bin** A growth theorem for biholomorphic convex mappings in the unit ball of a complex Banach space and in a bounded pseudoconvex balanced domain. (Chinese. Chinese summary) **2001g:32051**
**Dineen, Seán** ★ Complex analysis on infinite-dimensional spaces. (English summary) **2001a:46043**
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**Hamada, Hidetaka** (*with* Kohr, Gabriela; Liczberski, Piotr) On some sufficient conditions for univalence in complex Banach spaces. (English summary) **2001e:46081**
**Honda, Tatsuhiro** The growth theorem of biholomorphic mappings on a Banach space. (English summary) **2001h:46073**
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**Hu, Chuan Gan** (*with* Ye, Xiu-Fang) The Nevanlinna's first main theorem for holomorphic Hermitian line bundles. **2001f:58012**
**Isidro, José María[1]** (*with* Stachó, László L.) Holomorphic automorphisms of continuous products of balls. (English summary) **2001g:46103**
**Kaup, Wilhelm** On a Schwarz lemma for bounded symmetric domains. **2001b:46072**
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**Kuczumow, Tadeusz** (*with* Stachura, Adam) The Denjoy-Wolff theorem for $s$-condensing mappings. (English summary) **2001h:46075**
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**Mujica, Jorge** Ideals of holomorphic functions on infinite dimensional spaces. (English summary) **2001d:46067**
**Nikol'skiĭ, Nikolai K.** *see* **Arendt, Wolfgang, 2001f:46056**
**Răducanu, Dorina** Alpha-spiral mappings of a Banach space into the complex plane. (English summary) (*see* **2001h:30003**)
**Reich, Simeon** *see* **Aharonov, Dov et al., 2001m:32048**
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## 58B15 Fredholm structures [see also 47A53]

**Balboni, Ferrante** The preparation theorem on Banach spaces. (English summary) **2001m:58007**
**Benevieri, Pierluigi** (*with* Furi, Massimo) On the concept of orientability for Fredholm maps between real Banach manifolds. (English summary) **2001m:58008**
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**Soriano Arbizu, J. M.** Compact mappings and proper mappings between Banach spaces that share a value. (English summary) **2001m:58018**
**Taubes, Clifford Henry** Moduli spaces and Fredholm theory for pseudoholomorphic subvarieties associated to self-dual, harmonic 2-forms. **2001g:53157**

## 58B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

**Chu, Cho-Ho** (*with* Isidro, José María[1]) Manifolds of tripotents in JB*-triples. (English summary) **2001f:58011**
**Corach, Gustavo** (*with* Maestripieri, Alejandra) Differential and metrical structure of positive operators. **2001a:58004**
— (*with* Maestripieri, Alejandra) Differential geometry on Thompson's components of positive operators. (English summary) **2001h:58008**
**Duval, Christian** (*with* Guieu, Laurent) The Virasoro group and the fourth geometry of Poincaré. (English summary) **2001j:58008b**
— (*with* Guieu, Laurent) The Virasoro group and Lorentzian surfaces: the hyperboloid of one sheet. (English summary) **2001j:58008a**
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**Harmer, M.** Hermitian symplectic geometry and extension theory. (English summary) **2001m:58009**
**Hu, Chuan Gan** (*with* Ye, Xiu-Fang) The Nevanlinna's first main theorem for holomorphic Hermitian line bundles. **2001f:58012**
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**Maestripieri, Alejandra** *see* **Corach, Gustavo, 2001a:58004** *and* **2001h:58008**
**Recht, Lázaro** Differential geometry in the space of positive operators. (Spanish. Spanish summary) **2001m:58010**
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— (*with* Corach, Gustavo; Stojanoff, Demetrio) Projective spaces of a $C^*$-algebra. (English summary) **2001g:46153**
**Arveson, William** The curvature of a Hilbert module over $\mathbf{C}[z_1, \cdots, z_d]$. (English summary) **2001k:47010**
**Berceanu, Ştefan** Coherent states, transition amplitudes and embeddings. (English summary) **2001h:81113**
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## 58B25 Group structures and generalizations on infinite-dimensional manifolds [see also 22E65, 58D05]

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## 58B32 Geometry of quantum groups

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## 58B34 Noncommutative geometry (à la Connes)

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## 58Cxx Calculus on manifolds; nonlinear operators [see also 46Txx, 47Hxx, 47Jxx]

### 58C05 Real-valued functions

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## 58C25 Differentiable maps

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## 58C30 Fixed point theorems on manifolds [see also 47H10]

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## 58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

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**Kondrat'ev, Yu. G.** (*with* Litvinov, E. V.; Us, G. F.) Analysis and geometry on $\mathbf{R}_+$-marked configuration space. (English summary) **2001i:58075**
**Litvinov, E. V.** *see* **Kondrat'ev, Yu. G. et al., 2001i:58075**
**Us, G. F.** *see* **Kondrat'ev, Yu. G. et al., 2001i:58075**

## 58C40 Spectral theory; eigenvalue problems [see also 47J10, 58E07]

Items with secondary classifications in 58C40

**Lewis, Adrian S.** Convex analysis on Cartan subspaces. **2001g:49026**

## 58C50 Analysis on supermanifolds or graded manifolds

**Amadei, Davide** Distributions on graded manifolds. (English summary) **2001d:58010**
**Khrennikov, Andrei** ★ Superanalysis. (English summary) **2001b:58018**
**Sánchez-Valenzuela, O. A.** (*with* Victoria-Monge, Carles) Classification of integration patterns on $\mathbf{R}^{1|1}$. (English summary) **2001j:58016**
**Victoria-Monge, Carles** *see* **Sánchez-Valenzuela, O. A., 2001j:58016**

Items with secondary classifications in 58C50

**de Azcárraga, J. A.** *see* **Chryssomalakos, Chryssomalis et al., 2001i:81201**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Chryssomalakos, Chryssomalis** (*with* de Azcárraga, J. A.; Izquierdo, José M.[1]; Pérez Bueno, J. C.) The geometry of branes and extended superspaces. (English summary) **2001i:81201**
**Deligne, Pierre** (*with* Morgan, John W.) Notes on supersymmetry (following Joseph Bernstein). **2001g:58007**
**Gates, S. James, Jr.** Ectoplasm has no topology: the prelude. (English summary) **2001a:58003**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Izquierdo, José M.[1]** *see* **Chryssomalakos, Chryssomalis et al., 2001i:81201**
**Morgan, John W.** *see* **Deligne, Pierre, 2001g:58007**
**Muñoz Masqué, J.** (*with* Sánchez-Valenzuela, O. A.) Natural quotients on split supercotangent bundles and their canonical supersymplectic structures. (English summary) **2001c:58004**
**Nishimura, Hirokazu** Supersmooth topoi. (English summary) **2001g:58008**
**Park, Jeong-Hyuck** Superconformal symmetry in three dimensions. (English summary) **2001h:58007**
**Pérez Bueno, J. C.** *see* **Chryssomalakos, Chryssomalis et al., 2001i:81201**
**Sánchez-Valenzuela, O. A.** *see* **Muñoz Masqué, J., 2001c:58004**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**

## 58C99 None of the above, but in this section

Items with secondary classifications in 58C99

**Nishiura, Togo** Absolutely measurable functions on manifolds. (English summary) **2001c:26017**
**Shirazi, Fatemah Ayatollah Zadeh** A new necessary and sufficient condition for a subset of $\mathbf{R}^{p+1}$ to be a $p$-torus (up to $C^\infty$ diffeomorphism). (English summary) **2001b:57066**

# 58Dxx Spaces and manifolds of mappings [see also 46Txx, 53Cxx]

## 58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

**Bouarroudj, Sofiane** (*with* Ovsienko, V. Yu.) Schwarzian derivative related to modules of differential operators on a locally projective manifold. (English summary) **2001k:58018**
**Brunsden, Victor** Local rigidity and group cohomology. I. Stowe's theorem for Banach manifolds. (English summary) **2001f:58022**
**Larsson, T. A.** Extended diffeomorphism algebras and trajectories in jet space. (English summary) **2001j:58017**
**Murolo, Claudio** Diffeomorphisms lying in one-parameter groups and extension of stratified homeomorphisms. (English summary) **2001m:58021**
**Ovsienko, V. Yu.** *see* **Bouarroudj, Sofiane, 2001k:58018**

Items with secondary classifications in 58D05

**Abe, Kōjun** (*with* Fukui, Kazuhiko) On the structure of automorphisms of manifolds. (English summary) **2001d:57039**
**Affane, Atallah** A Lie transformation group attached to a second order elliptic operator. (English summary) **2001c:58015**
**Ebin, David G.** (*with* Misiołek, Gerard) The exponential map on $\mathcal{D}^s_\mu$. (English summary) **2001a:37123**
**Fukui, Kazuhiko** *see* **Abe, Kōjun, 2001d:57039**
**Guieu, Laurent** Stabilisateurs cycliques pour la représentation coadjointe du groupe des diffeomorphismes du cercle. (French summary) [Cyclic stabilizers for the coadjoint representation of the group of diffeomorphisms of the circle] **2001i:22026**
**Haller, Stefan** (*with* Rybicki, Tomasz) On the group of diffeomorphisms preserving a locally conformal symplectic structure. (English summary) **2001f:53164**
**Hirai, Takeshi** Group topologies and unitary representations of the group of diffeomorphisms. (English summary) **2001d:22014**
**Kondrat'ev, Yu. G.** *see* **Silva, José Luís et al., 2001f:58027**
**Kruglov, V. V.** *see* **Zaĭtseva, V. A. et al., 2001f:22065**
**Labarca, Rafael** A note on the intersection of codimension one submanifolds in $\mathrm{Diff}^r(M)$. (English summary) **2001f:37064**
**Lyudkovskiĭ, S. V.** Quasi-invariant measures on a group of diffeomorphisms of an infinite-dimensional real manifold and induced irreducible unitary representations. (English summary) **2001f:58026**
**Misiołek, Gerard** *see* **Ebin, David G., 2001a:37123**
**Polyakova, N. S.** An analogue of the second Lie theorem for a class of locally convex local Lie groups. (Russian. Russian summary) **2001m:22038**
**Rebelo, Julio C.** On nilpotent groups of real analytic diffeomorphisms of the torus. (English and French summaries) **2001m:22041**
**Rybicki, Tomasz** *see* **Haller, Stefan, 2001f:53164**
**Sergeev, Armen G.** $\mathrm{Diff}_+(S^1)/S^1$ as a space of complex structures on loop spaces of compact Lie groups. (English summary) **2001m:22039**
— *see also* **Zaĭtseva, V. A. et al., 2001f:22065**
**Shimomura, Hiroaki** 1-cocycles on the group of diffeomorphisms. II. **2001b:22018**
— Unitary representations and 1-cocycles on the group of diffeomorphisms. (English summary) **2001a:22016**
**Silva, José Luís** (*with* Kondrat'ev, Yu. G.; Streit, Ludwig) Representation of diffeomorphisms on compound Poisson space. (English summary) **2001f:58027**
**Streit, Ludwig** *see* **Silva, José Luís et al., 2001f:58027**
**Strigunova, M. S.** *see* **Zaĭtseva, V. A. et al., 2001f:22065**
**Trushkin, K. A.** *see* **Zaĭtseva, V. A. et al., 2001f:22065**
**Yaremchuk, A. I.** Clebsch transformation of the equations of hydrodynamics. (Russian. Russian summary) **2001e:37105**
**Zaĭtseva, V. A.** (*with* Kruglov, V. V.; Sergeev, Armen G.; Strigunova, M. S.; Trushkin, K. A.) Remarks on the loop groups of compact Lie groups and the diffeomorphism group of the circle. (Russian. Russian summary) **2001f:22065**

## 58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47H20]

Items with secondary classifications in 58D07

**Kunzinger, Michael** (*with* Oberguggenberger, Michael) Group analysis of differential equations and generalized functions. (English summary) **2001c:35010**
**Oberguggenberger, Michael** *see* **Kunzinger, Michael, 2001c:35010**
**Xu, Hong-Kun** Asymptotic behavior of a gradient flow. (English summary) **2001m:47131**

## 58D10 Spaces of imbeddings and immersions

Items with secondary classifications in 58D10

**Hurtubise, David E.** (*with* Sanders, Marc D.) Compactified spaces of holomorphic curves in complex Grassmann manifolds. (English summary) **2001h:55019**
**Illman, Sören** (*with* Kankaanrinta, Marja) A new topology for the set $C^{\infty,G}(M,N)$ of $G$-equivariant smooth maps. **2001f:58024**
**Kankaanrinta, Marja** *see* **Illman, Sören, 2001f:58024**
**Sanders, Marc D.** *see* **Hurtubise, David E., 2001h:55019**
**Tchernov, Vladimir** Homotopy groups of the space of curves on a surface. (English summary) **2001b:57070**

## 58D15 Manifolds of mappings [see also 46T10, 54C35]

**Brezis, Haïm** (*with* Li, Yan Yan) Topology and Sobolev spaces. (English and French summaries) **2001g:58019**
**Li, Yan Yan** *see* **Brezis, Haïm, 2001g:58019**
**Macias-Virgós, E.** (*with* Sanmartín Carbón, E.) Manifolds of maps in Riemannian foliations. (English summary) **2001f:58023**
**Sanmartín Carbón, E.** *see* **Macias-Virgós, E., 2001f:58023**

Items with secondary classifications in 58D15

**Bourgain, Jean** (*with* Brezis, Haïm; Mironescu, Petru) Lifting in Sobolev spaces. **2001h:46044**

**Brezis, Haïm** (*with* Li, Yan Yan; Mironescu, Petru; Nirenberg, Louis) Degree and Sobolev spaces. (English summary) **2001a:47065**

— *see also* **Bourgain, Jean et al., 2001h:46044**

**Guest, Martin A.** (*with* Kwieciński, Michał; Ong, Boon-Wee) Pseudo vector bundles and quasifibrations. (English summary) **2001h:32031**

**Kwieciński, Michał** *see* **Guest, Martin A. et al., 2001h:32031**

**Li, Yan Yan** *see* **Brezis, Haïm et al., 2001a:47065**

**Mironescu, Petru** *see* **Brezis, Haïm et al., 2001a:47065** *and* **Bourgain, Jean et al., 2001h:46044**

**Multarzyński, Piotr** On some differential structures for function spaces. (English summary) **2001i:58005**

**Nirenberg, Louis** *see* **Brezis, Haïm et al., 2001a:47065**

**Ong, Boon-Wee** *see* **Guest, Martin A. et al., 2001h:32031**

**Platonov, S. S.** An approach to the theory of spaces of Nikol'skiĭ-Besov type on homogeneous manifolds. (Russian. English and Russian summaries) **2001m:46078**

## 58D17 Manifolds of metrics (esp. Riemannian)

**Katagiri, Minyo** On the topology of the moduli space of negative constant scalar curvature metrics on a Haken manifold. **2001a:58008**

Items with secondary classifications in 58D17

**Duval, Christian** (*with* Guieu, Laurent) The Virasoro group and the fourth geometry of Poincaré. (English summary) **2001j:58008b**

— (*with* Guieu, Laurent) The Virasoro group and Lorentzian surfaces: the hyperboloid of one sheet. (English summary) **2001j:58008a**

**Guieu, Laurent** *see* **Duval, Christian, 2001j:58008a** *and* **2001j:58008b**

## 58D19 Group actions and symmetry properties

**Bojowald, Martin** (*with* Kastrup, H. A.) Symmetry reduction for quantized diffeomorphism-invariant theories of connections. (English summary) **2001j:58018**

**Illman, Sören** (*with* Kankaanrinta, Marja) A new topology for the set $C^{\infty,G}(M,N)$ of $G$-equivariant smooth maps. **2001f:58024**

— (*with* Kankaanrinta, Marja) Three basic results for real analytic proper $G$-manifolds. **2001f:58025**

**Kankaanrinta, Marja** *see* **Illman, Sören, 2001f:58024** *and* **2001f:58025**

**Kastrup, H. A.** *see* **Bojowald, Martin, 2001j:58018**

Items with secondary classifications in 58D19

**Anderson, Ian M.** (*with* Fels, Mark E.; Torre, Charles G.) Group invariant solutions without transversality. (English summary) **2001h:58049**

**Baras, John S.** Group invariance and symmetries in nonlinear control and estimation. (English summary) **2001k:93034**

**Berchenko, Irina** (*with* Olver, Peter J.) Symmetries of polynomials. (English summary) **2001g:13007**

**Castrillón López, M.** (*with* Muñoz Masqué, J.) Gauge invariance on principal SU(2)-bundles. (English summary) **2001c:53034**

**Fels, Mark E.** *see* **Anderson, Ian M. et al., 2001h:58049**

**Kapoudjian, Christophe** Coadjoint orbits of extensions of $\mathrm{Diff}^+(S^1)$ by modules of tensor densities. (English summary) **2001h:22023**

**Moore, Gregory W.** (*with* Nekrasov, Nikita A.; Shatashvili, Samson L.) Integrating over Higgs branches. (English summary) **2001h:53065**

**Muñoz Masqué, J.** *see* **Castrillón López, M., 2001c:53034**

**Nekrasov, Nikita A.** *see* **Moore, Gregory W. et al., 2001h:53065**

**Olver, Peter J.** *see* **Berchenko, Irina, 2001g:13007**

**Shatashvili, Samson L.** *see* **Moore, Gregory W. et al., 2001h:53065**

**Torre, Charles G.** *see* **Anderson, Ian M. et al., 2001h:58049**

## 58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [see also 28Cxx, 46T12]

**Al'beverio, S.** (*with* Daletskiĭ, A. Yu.; Kondrat'ev, Yu. G.) Some examples of Dirichlet operators associated with the actions of infinite dimensional Lie groups. (English summary) **2001e:58009**

**Daletskiĭ, A. Yu.** *see* **Al'beverio, S. et al., 2001e:58009**

**Kondrat'ev, Yu. G.** *see* **Al'beverio, S. et al., 2001e:58009** *and* **Silva, José Luís et al., 2001f:58027**

**Lévy, Thierry** Construction et étude à l'échelle microscopique de la mesure de Yang-Mills sur les surfaces compactes. (English and French summaries) [Construction and study at the microscopic scale of the Yang-Mills measure on compact surfaces] **2001e:58010**

**Lyudkovskiĭ, S. V.** Quasi-invariant measures on a group of diffeomorphisms of an infinite-dimensional real manifold and induced irreducible unitary representations. (English summary) **2001f:58026**

**Shavgulidze, E. T.** Quasi-invariant measures with respect to diffeomorphism groups on spaces of curves and surfaces. (Russian. Russian summary) **2001b:58019**

**Silva, José Luís** (*with* Kondrat'ev, Yu. G.; Streit, Ludwig) Representation of diffeomorphisms on compound Poisson space. (English summary) **2001f:58027**

**Srimurthy, Vikram K.** On the equivalence of measures on loop space. (English summary) **2001m:58022**

**Streit, Ludwig** *see* **Silva, José Luís et al., 2001f:58027**

Items with secondary classifications in 58D20

**Applebaum, David** (*with* Kunita, Hiroshi) Invariant measures for Lévy flows of diffeomorphisms. (English summary) **2001k:58073**

**Ashtekar, Abhay** (*with* Marolf, Donald; Mourão, José; Thiemann, Thomas) Constructing Hamiltonian quantum theories from path integrals in a diffeomorphism-invariant context. (English summary) **2001k:83043**

**Cruzeiro, Ana-Bela** (*with* Malliavin, Paul) Frame bundle of Riemannian path space and Ricci tensor in adapted differential geometry. (English summary) **2001h:60103**

**Fang, Shizan** Integration by parts for heat measures over loop groups. (English summary) **2001g:60131**

**Johnson, Gerald W.** (*with* Johnson, Lisa) Time maps in the study of Feynman's operational calculus via Wiener and Feynman path integrals. (English summary) **2001i:81151**

**Johnson, Lisa** *see* **Johnson, Gerald W., 2001i:81151**

**Kunita, Hiroshi** *see* **Applebaum, David, 2001k:58073**

**Lyudkovskiĭ, S. V.** Quasi-invariant measures on loop groups of Riemannian manifolds. (Russian) **2001e:22012**

**Malliavin, Paul** *see* **Cruzeiro, Ana-Bela, 2001h:60103**

**Marolf, Donald** *see* **Ashtekar, Abhay et al., 2001k:83043**

**Mourão, José** *see* **Ashtekar, Abhay et al., 2001k:83043**

**Pickrell, Doug** On the action of the group of diffeomorphisms of a surface on sections of the determinant line bundle. (English summary) **2001e:58042**

**Smolyanov, Oleg G.** *see* **von Weizsäcker, Heinrich et al., 2001k:58079**

**Thiemann, Thomas** *see* **Ashtekar, Abhay et al., 2001k:83043**

**Uglanov, A. V.** ★ Integration on infinite-dimensional surfaces and its applications. (English summary) **2001c:46129**

**von Weizsäcker, Heinrich** (*with* Smolyanov, Oleg G.; Wittich, Olaf) Diffusion on a compact Riemannian manifold, and surface measures. (Russian) **2001k:58079**

**Wittich, Olaf** *see* **von Weizsäcker, Heinrich et al., 2001k:58079**

## 58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]

Items with secondary classifications in 58D25

**Gobbino, Massimo** Minimizing movements and evolution problems in Euclidean spaces. (English summary) **2001b:49011**

## 58D27 Moduli problems for differential geometric structures

**Bakas, Ioannis** Remarks on the Atiyah-Hitchin metric. (English summary) (*see* **2001h:81005**)

**Brągiel, Kazimierz** (*with* Piechocki, Włodzimierz) Topology of the space of smooth solutions to the Liouville equation. (English summary) **2001f:58028**

**Manton, Nicholas S.** Solitons and their moduli spaces. (English summary) **2001g:58020**

**Piechocki, Włodzimierz** *see* **Brągiel, Kazimierz, 2001f:58028**

Items with secondary classifications in 58D27

**Carpi, Cristiano** (*with* Fucito, Francesco) Gauge zero-modes on ALE manifolds. (English summary) **2001b:53023**

**Chen, Jingyi** (*with* Tian, Gang) Compactification of moduli space of harmonic mappings. (English summary) **2001k:58024**

**Chi, Quo-Shin** The dimension of the moduli space of superminimal surfaces of a fixed degree and conformal structure in the 4-sphere. (English summary) **2001i:53102**

**Fu, Ji Xiang** The moduli space of complex Lagrangian submanifolds in the hyper-Kaehler manifold. (English summary) **2001c:53073**

**Fucito, Francesco** *see* **Carpi, Cristiano, 2001b:53023**

**Hong, Ying-Ji** Harmonic maps into the moduli spaces of flat connections. (English summary) **2001d:58013**

**Houghton, Conor J.** On the generalized Legendre transform and monopole metrics. (English summary) **2001i:53071**

**Jarvis, Stuart** A rational map for Euclidean monopoles via radial scattering. **2001g:53056**

**Kraan, Thomas C.** Instantons, monopoles and toric hyperKähler manifolds. (English summary) **2001g:53057**

**Meinrenken, E.** (*with* Woodward, Christopher) Cobordism for Hamiltonian loop group actions and flat connections on the punctured two-sphere. (English summary) **2001e:53089**

**Mukai-Hidano, Mariko** Moduli spaces of solutions to the gauge-theoretic equations for harmonic maps. **2001b:53024**

**Ohnita, Yoshihiro** Gauge-theoretic equations for symmetric spaces and certain minimal submanifolds in moduli spaces. **2001a:53046**

**Popov, A. D.** Self-dual Yang-Mills: symmetries and moduli space. (English summary) **2001b:53025**

**Taubes, Clifford Henry** Moduli spaces and Fredholm theory for pseudoholomorphic subvarieties associated to self-dual, harmonic 2-forms. **2001g:53157**

**Teleman, Andrei** Moduli spaces of PU(2)-monopoles. **2001m:57059**

**Tian, Gang** *see* **Chen, Jingyi, 2001k:58024**

**Woodward, Christopher** *see* **Meinrenken, E., 2001e:53089**

## 58D29 Moduli problems for topological structures

**Baues, Oliver** Varieties of discontinuous groups. **2001i:58013**

## 58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

**Cartier, Pierre** (*with* DeWitt-Morette, Cécile) Functional integration. (English summary) **2001m:58023**

**DeWitt-Morette, Cécile** *see* **Cartier, Pierre, 2001m:58023**

**Gozzi, E.** (*with* Regini, M.) Addenda and corrections to work done on the path-integral approach to classical mechanics. (English summary) **2001i:58014**

**Higa, Tatsuo** A remark on path integrals in Riemannian manifolds. **2001m:58024**

**Johnson, Gerald W.** (*with* Lapidus, Michel L.) ★ The Feynman integral and Feynman's operational calculus. **2001i:58015**

**Karp, Robert L.** (*with* Mansouri, Freydoon; Rno, Jung S.) Product integral formalism and non-abelian Stokes theorem. (English summary) **2001m:58025**
**Koval'chik, I. M.** (*with* Koval'chik, Yu. I.) On the Feynman integral in the space of continuous functions defined on a compact set. III. (Russian. English, Russian and Ukrainian summaries) **2001j:58019**
**Koval'chik, Yu. I.** *see* **Koval'chik, I. M., 2001j:58019**
**Lapidus, Michel L.** *see* **Johnson, Gerald W., 2001i:58015**
**Mansouri, Freydoon** *see* **Karp, Robert L. et al., 2001m:58025**
**Regini, M.** *see* **Gozzi, E., 2001i:58014**
**Rno, Jung S.** *see* **Karp, Robert L. et al., 2001m:58025**

Items with secondary classifications in 58D30

**Ashtekar, Abhay** (*with* Marolf, Donald; Mourão, José; Thiemann, Thomas) Constructing Hamiltonian quantum theories from path integrals in a diffeomorphism-invariant context. (English summary) **2001k:83043**
**(Cartan, Henri)** *see* **Guillemin, Victor W., 2001i:53140**
**Cartier, Pierre** (*with* DeWitt-Morette, Cécile) Geometry and functional integration. (English summary) **2001g:81144**
**DeWitt-Morette, Cécile** *see* **Cartier, Pierre, 2001g:81144**
**Guillemin, Victor W.** (*with* Sternberg, Shlomo) ★ Supersymmetry and equivariant de Rham theory. (English summary) **2001i:53140**
**Gulo, I. N.** (*with* Yanovich, L. A.) The Laplace method for a class of functional integrals. (Russian. English and Russian summaries) **2001i:28017**
**Ichinose, Wataru** On convergence of the Feynman path integral formulated through broken line paths. (English summary) **2001k:81137**
**Inoue-Ushiyama, Atsuko** *see* **Takatsuka, Kazuo et al., 2001g:81148**
**Johnson, Gerald W.** (*with* Johnson, Lisa) Time maps in the study of Feynman's operational calculus via Wiener and Feynman path integrals. (English summary) **2001i:81151**
**Johnson, Lisa** *see* **Johnson, Gerald W., 2001i:81151**
**Kim, Byung Soo[1]** *see* **Yoo, Il et al., 2001c:28027**
**Lee, Je Yoon** *see* **Yoo, Il et al., 2001c:28027**
**Marolf, Donald** *see* **Ashtekar, Abhay et al., 2001k:83043**
**Morariu, Bogdan** Path integral quantization of the symplectic leaves of the SU(2)* Poisson-Lie group. (English summary) **2001g:53144**
**Mourão, José** *see* **Ashtekar, Abhay et al., 2001k:83043**
**Okamoto, Kiyosato** Feynman path integrals and representation for groups. (Japanese) (*see* **2001f:81011**)
**Rogers, Alice** The topological particle and Morse theory. (English summary) **2001m:81288**
**Shabanov, Sergei V.** Geometry of the physical phase space in quantum gauge systems. (English summary) **2001i:81170**
**Sternberg, Shlomo** *see* **Guillemin, Victor W., 2001i:53140**
**Takatsuka, Kazuo** (*with* Ushiyama, Hiroshi; Inoue-Ushiyama, Atsuko) Tunneling paths in multi-dimensional semiclassical dynamics. (English summary) **2001g:81148**
**Thiemann, Thomas** *see* **Ashtekar, Abhay et al., 2001k:83043**
**Ushiyama, Hiroshi** *see* **Takatsuka, Kazuo et al., 2001g:81148**
**Yanovich, L. A.** *see* **Gulo, I. N., 2001i:28017**
**Yoo, Il** (*with* Lee, Je Yoon; Kim, Byung Soo[1]) The analytic Feynman integral over paths in abstract Wiener space. II. (English summary) **2001c:28027**

## 58Exx Variational problems in infinite-dimensional spaces

### 58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)

**Angenent, Sigurd B.** (*with* Van der Vorst, Robert C. A. M.) A priori bounds and renormalized Morse indices of solutions of an elliptic system. (English and French summaries) **2001j:58020**
**Bolle, Philippe** (*with* Ghoussoub, Nassif; Tehrani, Hossein T.) The multiplicity of solutions in non-homogeneous boundary value problems. (English summary) **2001c:58010**
**Chen, Jian Qing** (*with* Li, Yong Qing) A variant of the quantitative deformation lemma and its applications. (Chinese. English and Chinese summaries) **2001b:58020**
**Ghoussoub, Nassif** *see* **Bolle, Philippe et al., 2001c:58010**
**Hirano, Norimichi** (*with* Li, Shu Jie; Wang, Zhi Qiang[1]) Morse theory without (PS) condition at isolated values and strong resonance problems. **2001e:58011**
**Jeanjean, Louis** Bounded Palais-Smale sequences in minimax theorems and applications to bifurcation theory.
**Kourogenis, Nikolaos C.** (*with* Papageorgiou, Nikolaos S.) Nonsmooth critical point theory and nonlinear elliptic equations at resonance. (English summary) **2001f:58029**
**Krastanov, Mikhail** *see* **Ribarska, Nadezhda K. et al., 2001b:58022**
**Kryszewski, Wojciech** (*with* Szulkin, Andrzej) Generalized linking theorem with an application to a semilinear Schrödinger equation. (English summary) **2001g:58021**
**Latschev, Janko** Gradient flows of Morse-Bott functions. **2001m:58026**
**Li, Shu Jie** (*with* Liu, Jia Quan) Computations of critical groups at degenerate critical point and applications to nonlinear differential equations with resonance. (English summary) **2001a:58009**
— *see also* **Hirano, Norimichi et al., 2001e:58011**
**Li, Yan Yan** (*with* Wang, Zhi Qiang[1]) Gluing approximate solutions of minimum type on the Nehari manifold. (English summary) **2001m:58027**
**Li, Yong Qing** *see* **Chen, Jian Qing, 2001b:58020**
**Liu, Jia Quan** *see* **Li, Shu Jie, 2001a:58009**
**Ma, T. F.** On a theorem of multiple critical points and periodic solutions of a differential system. (English summary) **2001c:58011**
**Marino, Antonio** (*with* Saccon, Claudio) Some $\nabla$-theorems and partial differential equations. **2001a:58010**
**Nirenberg, Louis** Variational methods in nonlinear problems. **2001k:58019**
**Papageorgiou, Nikolaos S.** *see* **Kourogenis, Nikolaos C., 2001f:58029**
**Pazhitnov, Andrei Vladimirovich** $C^0$-generic properties of boundary operators in the Novikov complex. **2001b:58021**
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## 58E07 Abstract bifurcation theory

**Rabier, Patrick J.** (*with* Stuart, Charles A.) $C^1$-Fredholm maps and bifurcation for quasilinear elliptic equations on $\mathbf{R}^N$. (English summary) **2001d:58011**
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**Dambrosio, Walter** Global bifurcation from the Fučik spectrum. (English summary) **2001i:34027**
**Damm, M.** Konstruktive Verzweigungstheorie für Halbeigenwerte. (English summary) [Constructive bifurcation theory for semi-eigenvalues] **2001c:47074**
**Drábek, Pavel** (*with* Stavrakakis, Nikos M.) Bifurcation from the first eigenvalue of some nonlinear elliptic operators in Banach spaces. **2001i:47106**
**Du, Zhong Fu** *see* **Liu, Ze Yi et al., 2001m:47132**
**Dymarskiĭ, Ya. M.** On a countable set of normalized eigenfunctions of a nonlinear periodic problem with a transformed argument. (Russian. Russian summary) **2001c:34135**
**Ermilova, N. V.** A method for the parametrization of solutions in a neighborhood of a branch point. (Russian. Russian summary) **2001e:47094**
**Furi, Massimo** (*with* Pera, Maria Patrizia; Martelli, Mario Umberto) General bifurcation theory: local results and applications. (English summary) (*see* **2001d:92001**)
**Galdi, Giovanni Paolo** (*with* Rabier, Patrick J.) Functional properties of the Navier-Stokes operator and bifurcation of stationary solutions: planar exterior domains. **2001c:35188**
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— Bounded Palais-Smale sequences in minimax theorems and applications to bifurcation theory.
— *see also* **Giacomoni, Jacques, 2001c:47075**
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**Li, Dong Sheng** *see* **Li, Kai Tai, 2001g:47119**
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**Pera, Maria Patrizia** *see* **Furi, Massimo et al., (2001d:92001)**
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**Sidorov, Nikolaĭ Aleksandrovich** Implicit parametrization of solutions of the bifurcation equation. (Russian. Russian summary) **2001f:47109**
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— Numerical analysis on solution of bifurcation problem with corank $N$. (English and Chinese summaries) **2001f:65153**
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— (*with* Sun, Jing Xian) Asymptotic bifurcation points of nonlinear operators. (Chinese. English and Chinese summaries) **2001g:47120**

## 58E09 Group-invariant bifurcation theory

**Krawcewicz, Wieslaw** (*with* Vivi, Paola) Equivariant degree and normal bifurcations. (English summary) **2001i:58016**
**Vivi, Paola** *see* **Krawcewicz, Wieslaw, 2001i:58016**

## 58E10 Applications to the theory of geodesics (problems in one independent variable)

**Anada, Kouichi** Parabolic equations that arise in the shortening problem for certain curves. (Japanese. Japanese summary) (*see* **2001d:34002**)
**Antonacci, Flavia** (*with* Giannoni, Fabio; Magrone, Paola) On the problem of the existence for connecting trajectories under the action of gravitational and electromagnetic fields. (English summary) **2001g:58023**
**Bartolo, Rossella** ★ Curvas críticas en variedades riemannianas y lorentzianas con borde. (Spanish) [Critical curves on Riemannian and Lorentzian manifolds with boundary] **2001h:58011a**
— ★ Critical curves on Riemannian and Lorentzian manifolds with boundary. **2001h:58011b**
**Battye, Richard A.** (*with* Sutcliffe, Paul M.) Solitons, links and knots. (English summary) **2001m:58029**
**Candela, Anna Maria** (*with* Salvatore, A.) Closed geodesics in stationary manifolds with strictly convex boundary. (English summary) **2001m:58030**
— (*with* Masiello, Antonio; Salvatore, A.) Existence and multiplicity of normal geodesics in Lorentzian manifolds. (English summary) **2001m:58031**
**Flores, José Luis** (*with* Sánchez, Miguel) Geodesic connectedness and conjugate points in GRW space-times. (English summary) **2001g:58024**
**Giannoni, Fabio** (*with* Perlick, Volker; Piccione, Paolo; Verderesi, J. A.) Time minimizing trajectories in Lorentzian geometry. (English and Portuguese summaries) **2001g:58025**
— (*with* Masiello, Antonio; Piccione, Paolo) A Morse theory for massive particles and photons in general relativity. (English summary) **2001h:58012**
— (*with* Piccione, Paolo; Sampalmieri, Rosella) On the geodesical connectedness for a class of semi-Riemannian manifolds. (English summary) **2001k:58021**
— *see also* **Antonacci, Flavia et al., 2001g:58023**
**Ivey, Thomas A.** Minimal curves of constant torsion. (English summary) **2001j:58021**
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**Masiello, Antonio** *see* **Giannoni, Fabio et al., 2001h:58012** *and* **Candela, Anna Maria et al., 2001m:58031**
**Neagu, Mircea** *see* **Udrişte, Constantin, 2001e:58013**
**Németh, S. Z.** Geodesic monotone vector fields. (English summary) **2001h:58013**
**Perlick, Volker** *see* **Giannoni, Fabio et al., 2001g:58025**
**Piccione, Paolo** *see* **Giannoni, Fabio et al., 2001g:58025; 2001h:58012** *and* **2001k:58021**
**Salvatore, A.** *see* **Candela, Anna Maria et al., 2001m:58030** *and* **2001m:58031**
**Sampalmieri, Rosella** *see* **Giannoni, Fabio et al., 2001k:58021**
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**Udrişte, Constantin** (*with* Neagu, Mircea) Extrema of $p$-energy functional on a Finsler manifold. (English summary) **2001e:58013**
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**Angenent, Sigurd B.** Inflection points, extatic points and curve shortening. **2001a:53105**
**Bartolo, Rossella** (*with* Mirenghi, Elvira; Tucci, Maria) Periodic trajectories on Lorentz manifolds under the action of a vector field. **2001g:37108**
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**Contreras-Barandiarán, Gonzalo** (*with* Iturriaga, Renato; Paternain, Gabriel P.; Paternain, M.) The Palais-Smale condition and Mañé's critical values. (English summary) **2001k:37101**
**Dai, Xingde** (*with* Diao, Yuanan) The minimum of knot energy functions. (English summary) **2001g:57008**
**De Micheli, Enrico** (*with* Monti Bragadin, G.; Viano, Giovanni Alberto) Riemannian geometrical optics: surface waves in diffractive scattering. (English summary) **2001f:58060**
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**Felmer, Patricio L.** (*with* Tanaka, Kazunaga) Hyperbolic-like solutions for singular Hamiltonian systems. (English summary) **2001a:37092**
**He, Zheng-Xu** The Euler-Lagrange equation and heat flow for the Möbius energy. (English summary) **2001h:53094**
**Itoh, Mitsuhiro** Weyl manifolds and the Morse functional. **2001h:53060**
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**Monti Bragadin, G.** *see* **De Micheli, Enrico et al., 2001f:58060**
**Paternain, Gabriel P.** *see* **Contreras-Barandiarán, Gonzalo et al., 2001k:37101**
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**Tanaka, Kazunaga** Periodic solutions for singular Hamiltonian systems and closed geodesics on non-compact Riemannian manifolds. (English and French summaries) **2001e:37081**
— *see also* **Felmer, Patricio L., 2001a:37092**
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**Wei, Shihshu Walter** The balance between existence and nonexistence theorems in differential geometry. (English summary) **2001m:53058**

## 58E11 Critical metrics

**Hwang, Seungsu** Critical points and conformally flat metrics. (English summary) **2001m:58033**
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**El Soufi, Ahmad** (*with* Ilias, Saïd) Riemannian manifolds admitting isometric immersions by their first eigenfunctions. (English summary) **2001f:53128**
**Guan, Zhuang Dan** On modified Mabuchi functional and Mabuchi moduli space of Kähler metrics on toric bundles. **2001b:32042**
**Ilias, Saïd** *see* **El Soufi, Ahmad, 2001f:53128**
**Müller, Werner[1]** (*with* Wendland, Katrin) Extremal Kähler metrics and Ray-Singer analytic torsion. (English summary) **2001j:32023**
**Petean, Jimmy** The Yamabe invariant of simply connected manifolds. (English summary) **2001g:53075**
**Tian, Gang** ★ Canonical metrics in Kähler geometry. **2001j:32024**
— Bott-Chern forms and geometric stability. **2001a:32034**
**Viaclovsky, Jeff A.** Conformal geometry, contact geometry, and the calculus of variations. **2001b:53038**
**Wendland, Katrin** *see* **Müller, Werner[1], 2001j:32023**

## 58E12 Applications to minimal surfaces (problems in two independent variables) [see also 49Q05]

**Amster, Pablo** (*with* De Nápoli, Pablo; Mariani, María Cristina) Solutions to the prescribed mean curvature equation. (English summary) **2001d:58012**
**Arezzo, Claudio** Minimal surfaces and deformations of holomorphic curves in Kähler-Einstein manifolds. (English summary) **2001i:58018**
**De Nápoli, Pablo** *see* **Amster, Pablo et al., 2001d:58012**
**Duren, Peter** (*with* Thygerson, William R.) Harmonic mappings related to Scherk's saddle-tower minimal surfaces. **2001i:58019**
**Fraser, Ailana M.** On the free boundary variational problem for minimal disks. **2001g:58026**
**Ge, Yuxin** Effect of topology on $H$-surfaces. **2001h:58014**
**Howards, Hugh Nelson** *see* **Morgan, Frank et al., 2001b:58024**
**Hutchings, Michael** *see* **Morgan, Frank et al., 2001b:58024**
**Lassoued, Lotfi** (*with* Mironescu, Petru) Ginzburg-Landau type energy with discontinuous constraint. **2001e:58014**
**Lei, Yu Tian** (*with* Wu, Zhuo-qun) $C^{1,\alpha}$ convergence of minimizers of a Ginzburg-Landau functional. (English summary) **2001a:58012**
**Loreti, Paola** (*with* March, Riccardo) Propagation of fronts in a nonlinear fourth order equation. (English summary) **2001g:58027**
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**Mariani, María Cristina** *see* **Amster, Pablo et al., 2001d:58012**
**Mironescu, Petru** *see* **Lassoued, Lotfi, 2001e:58014**
**Morgan, Frank** (*with* Hutchings, Michael; Howards, Hugh Nelson) The isoperimetric problem on surfaces of revolution of decreasing Gauss curvature. (English summary) **2001b:58024**
**Sasahara, Yasuhiro** Nonexistence of branch points of large $H$-surfaces spanning a Jordan curve. (Japanese) (*see* **2000e:35004**)
**Thygerson, William R.** *see* **Duren, Peter, 2001i:58019**
**Tromba, A. J.** The Morse theory of two-dimensional closed branched minimal surfaces and their generic non-degeneracy in Riemannian manifolds. **2001k:58022**
**Turowski, Gudrun** Existence of doubly connected minimal graphs in singular boundary configurations. **2001j:58022**
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— (*with* Mariani, María Cristina; Rial, D. F.) Solutions of $H$-systems using the Green function. (English summary) **2001j:35032**
**Auer, Franz** Homologically versus homotopically area minimizing surfaces in 3-manifolds. (English summary) **2001f:49074**

**Bethuel, Fabrice** (*with* Ghidaglia, Jean-Michel) Regularity for solutions to the equation of surfaces of prescribed mean curvature using the coarea formula. **2001j:35070**
**Borgna, J. P.** *see* **Amster, Pablo et al., 2001b:35102**
**Chen, Yun-Gang** (*with* Giga, Yoshikazu; Goto, Shun'ichi) Uniqueness and existence of viscosity solutions of generalized mean curvature flow equations [MR 93a:35093]. (*see* **2001b:74001**)
**Chen, Yunmei** Weak flow of $H$-systems. (English summary) **2001e:53070**
**Clarenz, Ulrich** (*with* von der Mosel, Heiko) Compactness theorems and an isoperimetric inequality for critical points of elliptic parametric functionals. (English summary) **2001k:35074**
**Drukker, Nadav** (*with* Gross, David J.; Ooguri, Hirosi) Wilson loops and minimal surfaces. (English summary) **2001k:81291**
**Finn, Robert S.** (*with* Neel, Robert Weston) $C$-singular solutions of the capillary problem. (English summary) **2001e:76043**
**Ghidaglia, Jean-Michel** *see* **Bethuel, Fabrice, 2001j:35070**
**Giga, Yoshikazu** *see* **Chen, Yun-Gang et al., (2001b:74001)**
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**Gross, David J.** *see* **Drukker, Nadav et al., 2001k:81291**
**Guan, Bo** (*with* Spruck, Joel) Hypersurfaces of constant mean curvature in hyperbolic space with prescribed asymptotic boundary at infinity. (English summary) **2001j:53069**
**Hildebrandt, Stefan** (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. III. Existence of graph solutions and some uniqueness results. (English summary) **2001c:53009**
**López, Francisco J.** (*with* Wei, Fusheng) Properly immersed minimal disks bounded by straight lines. (English summary) **2001m:53014**
**Mariani, Maria Cristina** *see* **Amster, Pablo et al., 2001b:35102** *and* **2001j:35032**
**Mese, Chikako** The Bernstein problem for complete Lagrangian stationary surfaces. **2001e:53084**
**Morgan, Frank** ★ Geometric measure theory. (English summary) **2001j:49001**
**von der Mosel, Heiko** *see* **Clarenz, Ulrich, 2001k:35074**
**Neel, Robert Weston** *see* **Finn, Robert S., 2001e:76043**
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**Parks, Harold R.** (*with* Pitts, Jon T.) Energy estimates for area minimizing hypersurfaces with arbitrary boundaries. (English summary) **2001b:49058**
**Pitts, Jon T.** *see* **Parks, Harold R., 2001b:49058**
**Rial, D. F.** *see* **Amster, Pablo et al., 2001b:35102** *and* **2001j:35032**
**Sa Earp, Ricardo** (*with* Toubiana, Eric) Existence and uniqueness of minimal graphs in hyperbolic space. (English summary) **2001h:53011**
**Sauvigny, Friedrich** *see* **Hildebrandt, Stefan, 2001c:53009**
**Sławianowski, Jan J.** Various aspects of the Born-Infeld nonlinearity. (English summary) **2001k:78024**
**Spruck, Joel** *see* **Guan, Bo, 2001j:53069**
**Toubiana, Eric** *see* **Sa Earp, Ricardo, 2001h:53011**
**Ville, Marina** On branch points of superminimal surfaces in 4-manifolds. **2001m:53110**
**Wei, Fusheng** *see* **López, Francisco J., 2001m:53014**
**Ziemer, William P.** Functions of least gradient and BV functions. **2001j:49069**

## 58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

**Androulakis, George** (*with* Dostoglou, Stamatis) Positivity results for the Yang-Mills-Higgs Hessian. (English summary) **2001h:58015**
**Benci, Vieri** (*with* Giannoni, Fabio; Piccione, Paolo) A variational problem for manifold valued functions. (English summary) **2001b:58025**
**Chruściński, Dariusz** Symplectic reduction of $p$-form electrodynamics. (English summary) **2001h:58016**
**Dostoglou, Stamatis** *see* **Androulakis, George, 2001h:58015**
**Fine, Dana** Energy in Yang-Mills on a Riemann surface. (English summary) **2001e:58015**
**Giannoni, Fabio** *see* **Benci, Vieri et al., 2001b:58025**
**Gil-Medrano, O.** (*with* Llinares Fuster, Elisa) Energy and volume of unit vector fields: first variation. (Spanish. English summary) **2001h:58017**
**Hong, Ying-Ji** Harmonic maps into the moduli spaces of flat connections. (English summary) **2001d:58013**
**Isobe, Takeshi** Energy estimate, energy gap phenomenon, and relaxed energy for Yang-Mills functional. (English summary) **2001b:58026**
**Lei, Yu Tian** (*with* Wu, Zhuo-qun) Asymptotic behaviour for minimizers of a Ginzburg-Landau-type functional. **2001c:58012**
**Lin, Chang-Shou** Topological degree for mean field equations on $S^2$. **2001j:58024**
**Llinares Fuster, Elisa** *see* **Gil-Medrano, O., 2001h:58017**
**Marini, Antonella** Regularity theory for the generalized Neumann problem for Yang-Mills connections—non-trivial examples in dimensions 3 and 4. (English summary) **2001i:58020**
**Moore, Helen** Stable minimal hypersurfaces and tangent cone singularities. (English summary) **2001a:58013**
**Naito, Hisashi** Solutions to Yang-Mills heat flow on a 4-dimensional manifold having small initial values. (Japanese) (*see* **2000e:35004**)
**Nolasco, Margherita** (*with* Tarantello, Gabriella) Vortex condensates for the SU(3) Chern-Simons theory. (English summary) **2001j:58025**
**Piccione, Paolo** *see* **Benci, Vieri et al., 2001b:58025**
**Sandier, Etienne** Erratum: "Lower bounds for the energy of unit vector fields and applications" [J. Funct. Anal. **152** (1998), no. 2, 379–403; MR 99b:58056]. **2001a:58014**
**Śniatycki, Jędrzej** Regularity of constraints and reduction in the Minkowski space Yang-Mills-Dirac theory. (English and French summaries) **2001h:58018**
**Stuart, David M. A.** Periodic solutions of the abelian Higgs model and rigid rotation of vortices. (English summary) **2001b:58027**
**Tafel, Jacek** Yang-Mills-Higgs equations with nonhomogeneous boundary conditions. (English summary) **2001a:58015**
**Tarantello, Gabriella** *see* **Nolasco, Margherita, 2001j:58025**
**Wu, Zhuo-qun** *see* **Lei, Yu Tian, 2001c:58012**

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**Bian, Bao Jun** Location of the vortices for the Ginzburg-Landau functional. (English summary) **2001b:58028**
**Chae, Dongho** (*with* Imanuvilov, Oleg Yurievich) Construction of a solution to the semilinear elliptic equation in Chern-Simons gauge theory. (English summary) **2001d:35050**
**Dragomir, Sorin** (*with* Urakawa, Hajime) On the inhomogeneous Yang-Mills equation $d_D^* R^D = f$. (English summary) **2001h:53035**
**Hayasida, Kazuya** (*with* Nakatani, Masao) On the Dirichlet problem of prescribed mean curvature equations without $H$-convexity condition. (English summary) **2001b:35092**
**Imanuvilov, Oleg Yurievich** *see* **Chae, Dongho, 2001d:35050**
**Nakatani, Masao** *see* **Hayasida, Kazuya, 2001b:35092**
**Popov, A. D.** Self-dual Yang-Mills: symmetries and moduli space. (English summary) **2001b:53025**
**Rudolph, Gerd** (*with* Tok, Torsten; Volobuev, I. P.) Exact solutions in Einstein-Yang-Mills-Dirac systems. (English summary) **2001f:53054**
**Shen, Zi Fei** Estimate of the singular set of the evolution problem for Yang-Mills flow. (English and Chinese summaries) **2001j:53095**
**Smoczyk, Knut** Harnack inequality for the Lagrangian mean curvature flow. (English summary) **2001e:53073**
**Śniatycki, Jędrzej** A Hamiltonian analysis of Yang-Mills equations. (English summary) **2001b:70037**
**Tok, Torsten** *see* **Rudolph, Gerd et al., 2001f:53054**
**Trudinger, Neil S.** (*with* Wang, Xu-Jia) The Bernstein problem for affine maximal hypersurfaces. (English summary) **2001h:53016**
**Urakawa, Hajime** *see* **Dragomir, Sorin, 2001h:53035**
**Volobuev, I. P.** *see* **Rudolph, Gerd et al., 2001f:53054**
**Wang, Xu-Jia** *see* **Trudinger, Neil S., 2001h:53016**

## 58E17 Pareto optimality, etc., applications to economics [see also 90C29]

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**Jongen, Hubertus Th.** (*with* Jonker, Peter; Twilt, Frank) ★ Nonlinear optimization in finite dimensions. (English summary) **2001i:90002**
**Jonker, Peter** *see* **Jongen, Hubertus Th. et al., 2001i:90002**
**Lee, Byung Soo** (*with* Lee, Suk-Jin) A vector extension to Behera and Panda's generalization of Minty's lemma. (English summary) **2001m:90099**
**Lee, Suk-Jin** *see* **Lee, Byung Soo, 2001m:90099**
**Psiola, Z. G.** On the realization of maximal geodesics in a $k$-product monopoly. (Russian. English and Russian summaries) **2001j:49034**
**Twilt, Frank** *see* **Jongen, Hubertus Th. et al., 2001i:90002**

## 58E20 Harmonic maps [see also 53C43], etc.

**Anand, Christopher Kumar** Harmonic morphisms of metric graphs. **2001a:58016**
**Arikan, Huriye** (*with* Kupeli, Demir N.) Some sufficient conditions for a map to be harmonic. (English summary) **2001k:58023**
**Atsuji, Atsushi** Remarks on harmonic maps into a cone from a stochastically complete manifold. (English summary) **2001e:58016**
**Bethuel, Fabrice** Variational methods for Ginzburg-Landau equations. **2001h:58019**
**Bian, Bao Jun** Location of the vortices for the Ginzburg-Landau functional. (English summary) **2001b:58028**
**Chen, Jingyi** (*with* Tian, Gang) Compactification of moduli space of harmonic mappings. (English summary) **2001k:58024**
— Harmonic mappings from Riemann surfaces. **2001j:58026**
**Chen, Qun[1]** Stability and constant boundary-value problems of harmonic maps with potential. (English summary) **2001j:58027**
**Chi, Dong Pyo** (*with* Choi, Hyeong In; Kim, Hyun Jung) Heat equation for harmonic maps of the compactification of complete manifolds. **2001m:58034**
**Choi, Hyeong In** *see* **Chi, Dong Pyo et al., 2001m:58034**
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**Julia, Bernard** (*with* Silva, Sebastián) Currents and superpotentials in classical gauge theories. II. Global aspects and the example of affine gravity. (English summary) **2001m:83010**
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**Manoff, S.** Auto-parallel equation as Euler-Lagrange's equation over spaces with affine connections and metrics. (English summary) **2001i:53036**
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**Şandru, Ovidiu** A geometric model of Lagrangians which depends explicitly on the parameters. (English summary) **2001f:53047**
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**Schechter, Martin** ★ Linking methods in critical point theory. (English summary) **2001f:58032**
**Shkoller, Steve** *see* **Kouranbaeva, Shinar, 2001j:70019**
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**(Vakhrameev, S. A.)** *see* **Bobylev, N. A. et al., 2001a:90057**
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**Zaslavski, Alexander J.** Existence and uniform boundedness of optimal solutions of variational problems. (English summary) **2001d:49002**

## 58E35 Variational inequalities (global problems)

**Gui, Changfeng** (*with* Wei, Juncheng) On a sharp Moser-Aubin-Onofri inequality for functions on $S^2$ with symmetry. (English summary) **2001g:58031**
**Motreanu, Dumitru** (*with* Sofonea, Mircea) Evolutionary variational inequalities arising in quasistatic frictional contact problems for elastic materials. (English summary) **2001m:58042**
**Sofonea, Mircea** *see* **Motreanu, Dumitru, 2001m:58042**
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**Kim, Do Wan** Regularity of nonlinear vector valued variational inequalities. (English summary) **2001g:35094**
**Miettinen, Markku** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**Panagiotopoulos, Panagiotis D.** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**Papageorgiou, Nikolaos S.** *see* **Gasiński, Leszek, 2001j:47078**

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**Abouqateb, Abdelhak** Courants invariants par une action propre. (English summary) [Currents that are invariant under a proper action] **2001b:58005**
**Bizoń, Piotr** Equivariant self-similar wave maps from Minkowski spacetime into 3-sphere. (English summary) **2001k:58055**
**Valent, Tullio** Nonlinear symmetries of mappings. Existence theorems for a perturbation problem in the presence of symmetries. **2001f:58019**
**Wang, Zhi Qiang[1]** Existence and symmetry of multi-bump solutions for nonlinear Schrödinger equations. (English summary) **2001h:35176**

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**Arreaga, G.** (*with* Capovilla, R.; Guven, Jemal) Noether currents for bosonic branes. (English summary) **2001i:58036**
**Beaulieu, Anne** (*with* Hadiji, Rejeb) Asymptotic behavior of minimizers of a Ginzburg-Landau equation with weight near their zeroes. **2001i:58037**
**Burzlaff, J.** Statics and dynamics of Abrikosov vortices and of related solitons. (English summary) **2001m:58043**
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**Chae, Dongho** (*with* Nam, Hee-Seok) Multiple existence of the multivortex solutions of the self-dual Chern-Simons CP(1) model on a doubly periodic domain. (English summary) **2001h:58023**
— Remarks on the relativistic self-dual Maxwell-Chern-Simons-Higgs system. (English summary) **2001i:58038**
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**Eslami, Parvin** (*with* Sarbishaei, Mohsen; Zakrzewski, Wojciech J.) Baby Skyrme models for a class of potentials. (English summary) **2001d:58017**
**Fujii, Kazuyuki** Nonlinear integrable models with higher d'Alembertian operator in any dimension. (English summary) **2001c:58014**
**Goldhaber, Alfred S.** Hairs on the unicorn: fine structure of monopoles and other solitons. (English summary) **2001d:58018**
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**Sandier, Etienne** (*with* Serfaty, Sylvia) Global minimizers for the Ginzburg-Landau functional below the first critical magnetic field. (English and French summaries) **2001i:58039**
**Sanyuk, Valerii I.** *see* **Rybakov, Yurii P., (2001e:37002)**
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**Yang, Yisong** Strings of opposite magnetic charges in a gauge field theory. (English summary) **2001d:58019**
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**Almgren, Frederick Justin, Jr.** (*with* Wang, Lihe) Mathematical existence of crystal growth with Gibbs-Thomson curvature effects. (English summary) **2001f:49080**
**Aubin, Jean-Pierre** ★ Optima and equilibria. (English summary) **2001g:49002**
**Aviles, Patricio** (*with* Giga, Yoshikazu) On lower semicontinuity of a defect energy obtained by a singular limit of the Ginzburg-Landau type energy for gradient fields. (English summary) **2001a:49003**
**Battye, Richard A.** (*with* Sutcliffe, Paul M.) Solitonic strings and knots. (English summary) **2001i:81159**
**Benci, Vieri** (*with* Fortunato, Donato) On the existence of the impossible pilot wave. **2001k:49032**
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**Bethuel, Fabrice** Variational methods for Ginzburg-Landau equations. **2001h:58019**
**Bian, Bao Jun** Location of the vortices for the Ginzburg-Landau functional. (English summary) **2001b:58028**
**Binz, Ernst** (*with* de León, Manuel; Socolescu, Dan) Global dynamics of media with microstructure. **2001g:74002**
**Colliander, J. E.** (*with* Jerrard, Robert L.) Ginzburg-Landau vortices: weak stability and Schrödinger equation dynamics. **2001h:35170**
**Ding, Shijin** Renormalized energy with vortices pinning effect. (English summary) **2001k:35078**
**Fernández, Antonio[2]** (*with* García Pérez, Pedro Luis) Variational theory of non-perfect relativistic fluids. **2001e:58019**
**Fortunato, Donato** *see* **Benci, Vieri, 2001k:49032**
**Fujii, Kazuyuki** (*with* Homma, Yasushi; Suzuki, Tatsuo[2]) Submodels of nonlinear Grassmann sigma models in any dimension and conserved currents, exact solutions. (English summary) **2001b:81073**
**Fujiwara, Fumiyo** (*with* Mimura, Fumitake; Nôno, Takayuki) New derivation of conservation laws and its application to more general neoclassical optimal growth models. **2001f:91058**

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Laurence, Peter (*with* Stredulinsky, Edward W.) A lower bound for the energy of magnetic fields supported in linked tori. (English and French summaries) 2001e:76133
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Parry, Gareth P. (*with* Šilhavý, Miroslav) Invariant line integrals in the theory of defective crystals. (English and Italian summaries) 2001j:74016
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— Corrigendum: "A construction of laminates from rank-1 polygons". 2001k:49004b

# 58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds

## 58H05 Pseudogroups and differentiable groupoids [see also 22A22, 22E65]

Crainic, Marius (*with* Moerdijk, Ieke) A homology theory for étale grŏupoids. (English summary) 2001f:58039
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He, Long Guang On the structure of Poisson groupoids. (Chinese. English and Chinese summaries) 2001f:58040
— (*with* Yuan, Ni) Coisotropic bisections for Poisson groupoids. (Chinese. English and Chinese summaries) 2001k:58029
Kamran, Niky (*with* Robart, Thierry) On the parametrization problem of Lie pseudogroups of infinite type. (English and French summaries) 2001m:58045
Lisle, Ian G. (*with* Reid, Gregory J.) Cartan structure of infinite Lie pseudogroups. 2001e:58023
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Muñoz Díaz, Jesús (*with* Muriel, F. J.; Rodriguez Lombardero, Jesus) The canonical isomorphism between the prolongation of the symbols of a nonlinear Lie equation and its attached linear Lie equation. (English summary) 2001a:58024
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Rodriguez Lombardero, Jesus *see* Muñoz Díaz, Jesús et al., 2001a:58024
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Biś, Andrzej Ends and algebraic directions of pseudogroups. (English summary) 2001b:22019
Clemente-Gallardo, Jesús Applications of Lie algebroids in mechanics and control theory. (English summary) 2001m:70024
Evens, Sam (*with* Lu, Jiang-Hua) Poisson harmonic forms, Kostant harmonic forms, and the $S^1$-equivariant cohomology of $K/T$. (English summary) 2001e:53085
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Kubarski, Jan Algebroid nature of the characteristic classes of flat bundles. (English summary) 2001a:53047
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Mackenzie, Kirill C. H. Affinoid structures and connections. 2001m:53143
— (*with* Xu, Ping[1]) Integration of Lie bialgebroids. (English summary) 2001b:53104
Mrčun, Janez Functoriality of the bimodule associated to a Hilsum-Skandalis map. (English summary) 2001k:22004
Palla, László *see* Balog, János et al., 2001j:81198
Stachura, Piotr $C^*$-algebra of a differential groupoid. 2001m:22006
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Weinstein, Alan Linearization problems for Lie algebroids and Lie groupoids [1800493]. (English summary) (*see* 2001h:00036)
Xu, Ping[1] *see* Mackenzie, Kirill C. H., 2001b:53104
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## 58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.) [see also 57R32]

Abadoğlu, E. A remark on first nonlinear Spencer sequence. (English summary) 2001b:58034
Asuke, Taro On the real secondary classes of transversely holomorphic foliations. (English and French summaries) 2001i:58040
Krasil′shchik, I. S. Cohomological approach to Poisson structures on nonlinear evolution equations. (English summary) 2001e:58024
Malakhaltsev, M. A. The Lie derivative and cohomology of $G$-structures. (English summary) 2001a:58025
Muñoz Díaz, Jesús (*with* Muriel, F. J.; Rodriguez Lombardero, Jesus) A remark on Goldschmidt's theorem on formal integrability. (English summary) 2001k:58030
Muriel, F. J. *see* Muñoz Díaz, Jesús et al., 2001k:58030
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**Vitolo, Raffaele** On different geometric formulations of Lagrangian formalism. (English summary) **2001j:58030**

Items with secondary classifications in 58H10

**Mikami, Kentaro** Godbillon-Vey classes of symplectic foliations. (English summary) **2001e:53086**

## 58H15 Deformations of structures [see also 32Gxx, 58J10]

**Bedjaoui-Tebbal, Naïma** Contractions d'algèbres de Lie et torsion de Nijenhuis. (English and French summaries) [Lie algebra contractions and Nijenhuis torsion] **2001f:58041**
**Itskov, Vladimir** (*with* Karasev, Mikhail V.; Vorob'ev, Yu. M.) Infinitesimal Poisson cohomology. (English summary) **2001k:58031**
**Karasev, Mikhail V.** *see* **Itskov, Vladimir et al., 2001k:58031**
**Krasil'shchik, I. S.** Integrability and supersymmetry. (English summary) (*see* **2001f:58004**)
**Vorob'ev, Yu. M.** *see* **Itskov, Vladimir et al., 2001k:58031**

Items with secondary classifications in 58H15

**Bonneau, Philippe** Classifications of star products and deformations of Poisson brackets. (English summary) **2001g:53159**
**Malakhaltsev, M. A.** The Lie derivative and cohomology of $G$-structures. (English summary) **2001a:58025**
**Merkulov, S. A.** An $L_\infty$-algebra of an unobstructed deformation functor. **2001f:32019**
**Tsygan, B. L.** Formality conjectures for chains. **2001g:53161**

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**Grassi, Michele** Local vanishing of characteristic cohomology. **2001j:58031**
**Popescu, Marcela** *see* **Popescu, Paul, 2001k:58032**
**Popescu, Paul** (*with* Popescu, Marcela) On graded algebra bundles. (English summary) **2001k:58032**
**Shih, Jirung Albert** Théorème d'existence et d'unicité pour un système d'équations aux dérivées partielles non-linéaire. [Existence and uniqueness theorem for a nonlinear system of partial differential equations] **2001f:58042**
**Yamaguchi, Keizo** (*with* Yatsui, Tomoaki) Geometry of higher order differential equations of finite type associated with symmetric spaces. (*see* **2001f:58004**)
**Yatsui, Tomoaki** *see* **Yamaguchi, Keizo, (2001f:58004)**

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**Dubrov, Boris** Contact invariants of ordinary differential equations. (*see* **2001f:58004**)
**Grifone, Joseph** (*with* Muzsnay, Zoltán) ★ Variational principles for second-order differential equations. **2001d:58016**
**Karasev, Mikhail V.** (*with* Novikova, Elena) Non-Lie permutation relations, coherent states, and quantum embedding. (English summary) **2001i:81116**
**Kašparová, Jana** A representation of the 1st-order variational sequence in field theory. (English summary) **2001b:58033**
**Krupka, Demeter** Variational sequences and variational bicomplexes. (English summary) **2001a:58021**
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**Muñoz Díaz, Jesús** (*with* Muriel, F. J.; Rodriguez Lombardero, Jesus) A remark on Goldschmidt's theorem on formal integrability. (English summary) **2001k:58030**
**Muriel, F. J.** *see* **Muñoz Díaz, Jesús et al., 2001k:58030**
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**Novikova, Elena** *see* **Karasev, Mikhail V., 2001i:81116**
**Ortaçgil, Ercüment** $G$-connections as twisted formal solutions of systems of PDEs related to geometric structures. (English summary) **2001f:53056**
**Ovsienko, V. Yu.** *see* **Lecomte, P. B. A., 2001j:17040**
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**Rassias, Themistocles M.** *see* **Prástaro, Agostino, 2001d:58026**
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**Rumin, Michel** Differential geometry on C-C spaces and application to the Novikov-Shubin numbers of nilpotent Lie groups. (English and French summaries) **2001g:53063**
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— Secondary operational calculus. (English summary) **2001f:12011**

# 58Jxx Partial differential equations on manifolds; differential operators [see also 32Wxx, 35–XX, 53Cxx]

## 58J05 Elliptic equations on manifolds, general theory [see also 35–XX]

**Adam, C.** (*with* Muratori, B.; Nash, Charles) Multiple zero modes of the Dirac operator in three dimensions. (English summary) **2001j:58032**
**Affane, Atallah** A Lie transformation group attached to a second order elliptic operator. (English summary) **2001c:58015**
**Asada, Akira** Clifford bundles over mapping spaces. (English summary) **2001c:58016**
**Bär, Christian** Localization and semibounded energy—a weak unique continuation theorem. (English summary) **2001e:58025**
**Booss-Bavnbek, Bernhelm** Unique continuation property for Dirac operators, revisited. (English summary) **2001h:58025**
**Bureš, Jarolím** The Rarita-Schwinger operator and spherical monogenic forms. (English summary) **2001k:58033**
**Cerejeiras, Paula** Reproducing kernels for hyperbolic spaces. (English summary) **2001f:58043**
**Chalub, Fabio A. C. C.** (*with* Zubelli, Jorge P.) Integrable systems, Huygens' principle, and Dirac operators. (English summary) **2001e:58026**
**Chang, Der-Chen** (*with* Tie, Jingzhi) Estimates for powers of sub-Laplacian on the non-isotropic Heisenberg group. (English summary) **2001m:58047**
**Feĭgin, M. V.** On singularities of operators satisfying the intertwining relation. (Russian. Russian summary) **2001i:58041**
**Friedrich, Thomas** ★ Dirac operators in Riemannian geometry. (English summary) **2001c:58017**
**Homma, Yasushi** Spinor-valued and Clifford algebra-valued harmonic polynomials. (English summary) **2001k:58034**
**Hu, Ze Jun** A Liouville theorem for a class of nonlinear elliptic equations. (Chinese. English and Chinese summaries) **2001m:58048**
**Jerison, David** (*with* Lebeau, Gilles) Nodal sets of sums of eigenfunctions. **2001b:58035**
**Johnsen, Jon** On the spectral properties of Witten-Laplacians, their range projections and Brascamp-Lieb's inequality. (English summary) **2001m:58049**
**Kim, Seok Woo** (*with* Lee, Yong Hah) Nonnegative solutions of an elliptic equation and Harnack ends of Riemannian manifolds. (English summary) **2001k:58035**
**Lebeau, Gilles** *see* **Jerison, David, 2001b:58035**
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**Luo, Xue Bo** *see* **Zhang, Ji Hui[1], 2001f:58045**
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**Mück, Wolfgang** Spinor parallel propagator and Green function in maximally symmetric spaces. (English summary) **2001g:58032**
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**Otway, Thomas H.** Nonlinear Hodge structures in vector bundles. (English summary) **2001h:58026**
**Schulze, Bert-Wolfgang** (*with* Tarkhanov, Nikolai N.) Singular functions and relative index for elliptic corner operators. (English summary) **2001m:58050**
**Shubin, Mikhail** Essential self-adjointness for magnetic Schrödinger operators on non-compact manifolds. (English summary) **2001f:58044**
**Tarkhanov, Nikolai N.** *see* **Schulze, Bert-Wolfgang, 2001m:58050**
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**Zhang, Ji Hui[1]** (*with* Luo, Xue Bo) Existence results for the positive solutions of a fourth order nonlinear equation on the Heisenberg group. (English summary) **2001f:58045**
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**Borbély, Albert** Gradient comparison theorems for harmonic functions on Riemannian manifolds. (English summary) **2001g:53069**
**Cerejeiras, Paula** (*with* Cnops, Jan) Hodge-Dirac operators for hyperbolic spaces. (English summary) **2001e:30089**
**Chen, Jie Cheng** Riesz transform on manifold. (Chinese. English and Chinese summaries) **2001m:42029**
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**Ditzian, Z.** (*with* Runovskiĭ, K. V.) Averages on caps of $S^{d-1}$. (English summary) **2001d:41012**
**Druet, Olivier** Inégalités de Sobolev optimales: récents développements. (French summary) [Recent results concerning optimal Sobolev inequalities] **2001d:46046**
**Erdős, László** (*with* Solovej, Jan Philip) On the kernel of Spin$^r$ Dirac operators on $S^3$ and $\mathbf{R}^3$. (English summary) **2001f:58069**
**Garofalo, Nicola** (*with* Vassilev, Dimiter) Regularity near the characteristic set in the non-linear Dirichlet problem and conformal geometry of sub-Laplacians on Carnot groups. **2001j:35042**
**Holopainen, Ilkka** A sharp $L^q$-Liouville theorem for $p$-harmonic functions. (English summary) **2001k:31012**
**Horie, Kenichi** Fibre bundle for spin and charge in general relativity. (English summary) **2001f:53097**
**Kori, Tosiaki** Poles and residues of zero-mode spinors over conformally flat 4-manifolds. (Japanese) (*see* **2000d:00010**)
**Kostant, Bertram** A cubic Dirac operator and the emergence of Euler number multiplets of representations for equal rank subgroups. **2001k:22032**
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**Lesch, Matthias** Essential self-adjointness of symmetric linear relations associated to first order systems. (English summary) **2001m:34184**
**Matsutani, Shigeki** Dirac operator on a conformal surface immersed in $\mathbf{R}^4$: a way to further generalized Weierstrass equation. (English summary) **2001f:53033**
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**Pujar, S. S.** Polyharmonic functions in Riemannian manifolds with boundary. **2001c:31005**
**Runovskiĭ, K. V.** *see* **Ditzian, Z., 2001d:41012**
**Shubin, Mikhail** Spectral theory of the Schrödinger operators on non-compact manifolds: qualitative results. (English summary) **2001d:58037**
**Solovej, Jan Philip** *see* **Erdős, László, 2001f:58069**
**Taubes, Clifford Henry** Nonlinear generalizations of a 3-manifold's Dirac operator. **2001a:58048**
**Teleman, Andrei** Moduli spaces of PU(2)-monopoles. **2001m:57059**
**Trautman, Andrzej** Reflections and spinors on manifolds. (English summary) **2001f:53100**
**Uguzzoni, Francesco** A note on Yamabe-type equations on the Heisenberg group. (English summary) **2001c:35060**
**Vassilev, Dimiter** *see* **Garofalo, Nicola, 2001j:35042**

**Willmore, T. J.** Dirac's equation, Schrödinger's equation and the geometry of surfaces. **2001i:53009**

## 58J10 Differential complexes [see also 35Nxx]; elliptic complexes

**Calderbank, David M. J.** (*with* Gauduchon, Paul; Herzlich, Marc) Refined Kato inequalities and conformal weights in Riemannian geometry. (English summary) **2001f:58046**
**Cordaro, Paulo D.** (*with* Hounie, Jorge) Local solvability for top degree forms in a class of systems of vector fields. (English summary) **2001h:58027**
**Eastwood, Michael G.** A complex from linear elasticity. **2001j:58033**
**Farber, Michael S.** (*with* Shustin, Evgenii) Witten deformation and polynomial differential forms. (English summary) **2001i:58042**
**Gauduchon, Paul** *see* **Calderbank, David M. J. et al., 2001f:58046**
**Gol'dshtein, Vladimir** (*with* Troyanov, Marc) The $L_{pq}$-cohomology of SOL. (English and French summaries) **2001c:58018**
**Herzlich, Marc** *see* **Calderbank, David M. J. et al., 2001f:58046**
**Hill, C. Denson** (*with* Nacinovich, Mauro) Conormal suspensions of differential complexes. **2001i:58043**
**Hounie, Jorge** *see* **Cordaro, Paulo D., 2001h:58027**
**Nacinovich, Mauro** *see* **Hill, C. Denson, 2001i:58043**
**Osborn, Howard** Affine connection complexes. (English summary) **2001c:58019**
**Shustin, Evgenii** *see* **Farber, Michael S., 2001i:58042**
**Slovák, Jan** Bernstein-Gelfand-Gelfand sequences. (English summary) (*see* **2001f:58004**)
**Troyanov, Marc** *see* **Gol'dshtein, Vladimir, 2001c:58018**
**Tsou, Sheung Tsun** (*with* Zois, Ioannis P.) Geometry of the nonabelian 2-index potential and twisted de Rham cohomology. (English summary) **2001j:58034**
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— (*with* Wang, Bai-Ling) Notes on Seiberg-Witten-Floer theory. **2001g:57059**
**Fernández, Marisa** (*with* Ugarte, Luis) A differential complex for locally conformal calibrated $G_2$-manifolds. (English summary) **2001f:53107**
**Homma, Yasushi** Spinor-valued and Clifford algebra-valued harmonic polynomials. (English summary) **2001k:58034**
**Honda, Ko** An openness theorem for harmonic 2-forms on 4-manifolds. (English summary) **2001h:58003**
**Johnsen, Jon** On the spectral properties of Witten-Laplacians, their range projections and Brascamp-Lieb's inequality. (English summary) **2001m:58049**
**Mathai, Varghese** *see* **Carey, Alan L. et al., 2001d:58038**
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**Popov, A. D.** Self-dual Yang-Mills: symmetries and moduli space. (English summary) **2001b:53025**
**Prástaro, Agostino** (Co)bordism groups in PDEs. (English summary) **2001m:58046**
**Rumin, Michel** Differential geometry on C-C spaces and application to the Novikov-Shubin numbers of nilpotent Lie groups. (English and French summaries) **2001g:53063**
**Ugarte, Luis** *see* **Fernández, Marisa, 2001f:53107**
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**Wu, Siye** A note on higher cohomology groups of Kähler quotients. (English summary) **2001m:53169**
**Yu, Yanlin** A semi-classical limit and its applications. (English summary) **2001k:58047**

## 58J15 Relations with hyperfunctions

**D'Agnolo, Andrea** (*with* Taglialatela, Giovanni) Sato-Kashiwara determinant and Levi conditions for systems. (English summary) **2001m:58051**
**Fermanian Kammerer, Clotilde** Mesures semi-classiques 2-microlocales. (English and French summaries) [2-microlocal semiclassical measures] **2001h:58028**
**Funakoshi, Shota** (*with* Kataoka, Kiyōmi) Solvability of a class of differential operators in $\mathcal{E}\mathcal{D}'$. (*see* **2000k:00028**)
**Honda, Naofumi** Microlocal Stokes phenomena for holonomic modules. (English summary) **2001c:58020**
**Kashiwara, Masaki** (*with* Schapira, Pierre) Ind-sheaves, distributions, and microlocalization. **2001a:58027**
**Kataoka, Kiyōmi** (*with* Satoh, Yoshiaki) Some microdifferential equations for microfunctions with a holomorphic parameter and their formal symbol type solutions. (*see* **2001f:35006**)
— *see also* **Funakoshi, Shota, (2000k:00028)**
**Muro, Masakazu** Hyperfunction solutions of invariant linear differential equations on prehomogeneous vector spaces. (English summary) (*see* **2001m:00025**)
**Quinto, Eric Todd** *see* **Zhou, Yiying, 2001k:58036**
**Satoh, Yoshiaki** *see* **Kataoka, Kiyōmi, (2001f:35006)**
**Schapira, Pierre** *see* **Kashiwara, Masaki, 2001a:58027**
**Sjöstrand, Johannes** Microlocal analysis. **2001j:58035**
**Taglialatela, Giovanni** *see* **D'Agnolo, Andrea, 2001m:58051**
**Uchida, Motoo** A survey of removable singularities in the theory of linear differential equations. **2001f:58047**
**Yamazaki, Susumu** Microlocalization of the topological boundary value morphism for regular-specializable systems. (*see* **2001f:35007**)
**Zampieri, Giuseppe** A new class of "boundary regular" microdifferential systems. (English summary) **2001d:58020**
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**Doi, Shin-ichi** Commutator algebra and abstract smoothing effect. (English summary) **2001e:58036**
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**Matsumoto, Waichiro** The Cauchy problem for systems—through the normal form of systems and theory of weighted determinant. (English summary) **2001i:35013**
**Sabbah, Claude** Équations différentielles à points singuliers irréguliers et phénomène de Stokes en dimension 2. (English and French summaries) [Differential equations with irregular singular points and the Stokes phenomenon in dimension 2] **2001j:32029**
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**Toth, John A.** On the quantum expected values of integrable metric forms. **2001j:58048**
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## 58J20 Index theory and related fixed point theorems [see also 19K56, 46L80]

**Alvarez, Marcos** (*with* Olive, David I.) The Dirac quantisation condition for fluxes on four-manifolds. (English summary) **2001j:58036**
**Braverman, Maxim** Vanishing theorems on covering manifolds. (English summary) **2001c:58021**
**Cannas da Silva, Ana** (*with* Guillemin, Victor W.) Quantization of symplectic orbifolds and group actions. (English summary) **2001a:58028**
**Fedosov, Boris** (*with* Schulze, Bert-Wolfgang; Tarkhanov, Nikolai N.) The index of elliptic operators on manifolds with conical points. (English summary) **2001a:58029**
**Fox, Jeffrey** (*with* Haskell, Peter) Index theory of perturbed Dolbeault operators: smooth polar divisors. (English summary) **2001k:58037**
— (*with* Haskell, Peter) Perturbed Dolbeault operators and the homology Todd class. (English summary) **2001b:58036**
**Guillemin, Victor W.** (*with* Zara, C.) Equivariant de Rham theory and graphs. (English summary) **2001g:58033**
— *see also* **Cannas da Silva, Ana, 2001a:58028**
**Haskell, Peter** *see* **Fox, Jeffrey, 2001b:58036** *and* **2001k:58037**
**Hattori, Akio[1]** Almost complex toric manifolds and positive line bundles. (English summary) **2001a:58030**
**Iwasaki, Chisato** Construction of the fundamental solution for a degenerate equation and a local version of Riemann-Roch theorem. (*see* **2001f:81011**)
**Lazarov, C.** Transverse index and periodic orbits. **2001i:58044**
**Lott, John** Signatures and higher signatures of $S^1$-quotients. (English summary) **2001f:58048**
**Nazaĭkinskiĭ, V. E.** (*with* Sternin, B. Yu.; Shatalov, V. E.; Schulze, Bert-Wolfgang) The Atiyah-Bott-Lefschetz formula for elliptic operators on manifolds with conic singularities. (Russian) **2001c:58022**
— (*with* Sternin, B. Yu.) Localization and surgery in the index theory of elliptic operators. (Russian) **2001f:58049**
**Olive, David I.** *see* **Alvarez, Marcos, 2001j:58036**
**Peeters, Kasper** (*with* Waldron, Andrew) Spinors on manifolds with boundary: APS index theorems with torsion. (English summary) **2001k:58038**
**Savin, A. Yu.** (*with* Sternin, B. Yu.; Schulze, Bert-Wolfgang) On invariant index formulas for spectral boundary value problems. (Russian. Russian summary) **2001c:58023**
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**Schulze, Bert-Wolfgang** *see* **Fedosov, Boris et al., 2001a:58029**; **Nazaĭkinskiĭ, V. E. et al., 2001c:58022** *and* **Savin, A. Yu. et al., 2001c:58023**
**Seeley, Robert** Asymptotic expansions for Atiyah-Patodi-Singer problems. **2001d:58021**
**Shatalov, V. E.** *see* **Nazaĭkinskiĭ, V. E. et al., 2001c:58022**
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**Wu, Siye** Equivariant holomorphic Morse inequalities. II. Torus and non-abelian group actions. (English summary) **2001g:58034**
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**Bechtluft-Sachs, Stefan** The computation of $\eta$-invariants on manifolds with free circle action. (English summary) **2001g:58038**
**Bismut, Jean-Michel** (*with* Labourie, François) Symplectic geometry and the Verlinde formulas. (English summary) **2001i:53145**
— (*with* Goette, Sebastian) Torsions analytiques équivariantes en théorie de de Rham. (English and French summaries) [Equivariant analytic torsions in de Rham theory] **2001m:58068**
**Cannas da Silva, Ana** (*with* Guillemin, Victor W.; Woodward, Christopher) On the unfolding of folded symplectic structures. (English summary) **2001b:53110**
**Carey, Alan L.** (*with* Farber, Michael S.; Mathai, Varghese) Correspondences, von Neumann algebras and holomorphic $L^2$ torsion. (English summary) **2001g:58056**
**Farber, Michael S.** *see* **Carey, Alan L. et al., 2001g:58056**
**Fedosov, Boris** On $G$-trace and $G$-index in deformation quantization [MR 2001k:53175]. (English summary) (*see* **2001h:00035**)
— The Atiyah-Bott-Patodi method in deformation quantization. (English summary) **2001g:53160**
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**Freed, Daniel S.** (*with* Hopkins, Michael J.) On Ramond-Ramond fields and $K$-theory. (English summary) **2001k:81221**
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**Goette, Sebastian** Equivariant $\eta$-invariants on homogeneous spaces. (English summary) **2001d:58022**
— Equivariant $\eta$-invariants and $\eta$-forms. (English summary) **2001k:58042**
— *see also* **Bismut, Jean-Michel, 2001m:58068**
**Guillemin, Victor W.** *see* **Cannas da Silva, Ana et al., 2001b:53110**
**Hopkins, Michael J.** *see* **Freed, Daniel S., 2001k:81221**
**Hori, Kentaro** D-branes, $T$-duality, and index theory. (English summary) **2001i:81217**
**Jost, Jürgen** (*with* Zuo, Kang[1]) Vanishing theorems for $L^2$-cohomology on infinite coverings of compact Kähler manifolds and applications in algebraic geometry. **2001f:32033**
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**Landweber, Gregory D.** Harmonic spinors on homogeneous spaces. (English summary) **2001i:22016**
**Liu, Kefeng** (*with* Ma, Xiaonan; Zhang, Wei Ping[1]) Rigidity and vanishing theorems in $K$-theory. (English and French summaries) **2001j:58039**
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**Mathai, Varghese** *see* **Carey, Alan L. et al., 2001g:58056**
**Merkl, Franz** A Riemann Roch theorem for infinite genus Riemann surfaces. (English summary) **2001e:32030**
**Metzler, David S.** A $K$-theoretic note on geometric quantization. (English summary) **2001g:53158**
**Moore, Gregory W.** (*with* Nekrasov, Nikita A.; Shatashvili, Samson L.) D-particle bound states and generalized instantons. (English summary) **2001k:81080**
— (*with* Witten, Edward) Self-duality, Ramond-Ramond fields and $K$-theory. (English summary) **2001m:81254**
**Nekrasov, Nikita A.** *see* **Moore, Gregory W. et al., 2001k:81080**
**(Nestke, Andreas)** *see* **Friedrich, Thomas, 2001c:58017**
**Schulze, Bert-Wolfgang** (*with* Tarkhanov, Nikolai N.) Pseudodifferential calculus on manifolds with singular points. (English and Georgian summaries) **2001e:58033**
— (*with* Tarkhanov, Nikolai N.) The Riemann-Roch theorem for manifolds with conical singularities. **2001b:58037**
**Shatashvili, Samson L.** *see* **Moore, Gregory W. et al., 2001k:81080**
**Soulé, Christophe** *see* **Gillet, Henri, 2001m:58070**
**Staudacher, Matthias** Bulk Witten indices and the number of normalizable ground states in supersymmetric quantum mechanics of orthogonal, symplectic and exceptional groups. (English summary) **2001h:81086**
**Tamarkin, D. E.** Fedosov connections on Kähler symmetric manifolds and trace density computation. (English summary) **2001d:53101**
**Tarkhanov, Nikolai N.** *see* **Schulze, Bert-Wolfgang, 2001b:58037** *and* **2001e:58033**
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— (*with* Zhang, Wei Ping[1]) Quantization formula for symplectic manifolds with boundary. (English summary) **2001i:53162**
**Witten, Edward** Duality relations among topological effects in string theory. (English summary) **2001m:81253**
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**Zhou, Jian Wei[1]** The upper bounds for eigenvalues of Dirac operators. (English summary) **2001g:58055**
**Zuo, Kang[1]** *see* **Jost, Jürgen, 2001f:32033**

## 58J22 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

**Carey, Alan L.** (*with* Mickelsson, Jouko) A gerbe obstruction to quantization of fermions on odd-dimensional manifolds with boundary. (English summary) **2001h:58029**
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**Barrera-Yanez, Egidio** The eta invariant of twisted products of even-dimensional manifolds whose fundamental group is a cyclic 2 group. (English summary) **2001a:58033**
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## 58J35 Heat and other parabolic equation methods

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**Gilkey, Peter B.** Heat content asymptotics. (English summary) **2001a:58035**
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## 58J37 Perturbations; asymptotics

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## 58J45 Hyperbolic equations [see also 35Lxx]

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## 58J52 Determinants and determinant bundles, analytic torsion

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## 58J65 Diffusion processes and stochastic analysis on manifolds [see also 35R60, 60H10, 60J60]

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**Muschietti, M. A.** *see* **Gamboa Saraví, R. E. et al., 2001m:81188**
**Nakamura, Shu[1]** *see* **Herbst, Ira, 2001g:81066**
**Nash, Charles** *see* **Adam, C. et al., 2001j:58032**
**Nekrasov, Nikita A.** *see* **Moore, Gregory W. et al., 2001k:81080**
**Papadopoulos, George J.** Brane surgery with Thom classes. (English summary) **2001a:81211**
**Restuccia, A.** (*with* Stephany Ruiz, J. E.) *BF* models, duality, and bosonization on higher genus surfaces. (English summary) **2001i:81255**
**Richter, Thomas** (*with* Seiler, R.) Geometric properties of transport in quantum Hall systems. **2001i:81145**
**Romero, C. T.** *see* **Fulling, Stephen A. et al., 2001j:58042**
**Rothe, K. D.** *see* **Actor, A. A. et al., 2001a:81158**
**Samani, K. Aghababaei** *see* **Mostafazadeh, Ali, 2001c:81055**
**Scholtz, F. G.** *see* **Actor, A. A. et al., 2001a:81158**
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**Shatah, Jalal** *see* **Chang, Nai-Heng et al., 2001a:35161**
**Shatashvili, Samson L.** *see* **Moore, Gregory W. et al., 2001k:81080**
**Shirai, Tomoyuki** *see* **Higuchi, Yusuke, 2001b:47053**
**Shubin, Mikhail** Essential self-adjointness for magnetic Schrödinger operators on non-compact manifolds. (English summary) **2001f:58044**
**Solomin, J. E.** *see* **Gamboa Saraví, R. E. et al., 2001m:81188**
**Staudacher, Matthias** Bulk Witten indices and the number of normalizable ground states in supersymmetric quantum mechanics of orthogonal, symplectic and exceptional groups. (English summary) **2001h:81086**
**Stephany Ruiz, J. E.** *see* **Restuccia, A., 2001i:81255**
**Stuart, David M. A.** Periodic solutions of the abelian Higgs model and rigid rotation of vortices. (English summary) **2001b:58027**
**Tanimura, Shogo** (*with* Iwai, Toshihiro) Reduction of quantum systems on Riemannian manifolds with symmetry and application to molecular mechanics. (English summary) **2001f:22067**
**Uhlenbeck, Karen K.** *see* **Chang, Nai-Heng et al., 2001a:35161**
**Vancea, Ion V.** *see* **Ciuhu, C., 2001f:83189**
**Witten, Edward** Duality relations among topological effects in string theory. (English summary) **2001m:81253**
— *see also* **Moore, Gregory W., 2001m:81254**
**Zhang, Xiao** Angular momentum and positive mass theorem. (English summary) **2001a:83043**

## 58J99 None of the above, but in this section

**Zajtz, Andrzej** Nonlinear Peetre-like theorems. (English summary) **2001c:58038**

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**Calaza, Manuel** A Witten style proof of Morse inequalities for orbit spaces. (English summary) **2001e:57038**
**Farber, Michael S.** Novikov-Shubin signatures. I. (English summary) **2001k:19008**
**Lee, Yong Hah** Rough isometry and Dirichlet finite harmonic functions on Riemannian manifolds. (English summary) **2001e:31012**
**Mariño, Marcos** (*with* Moore, Gregory W.) Three-manifold topology and the Donaldson-Witten partition function. (English summary) **2001b:57072**
**Moore, Gregory W.** *see* **Mariño, Marcos, 2001b:57072**

# 58Kxx Theory of singularities and catastrophe theory [see also 32Sxx, 37–XX]

**Arnol'd, V. I.** Singularity theory. (English summary) **2001i:58081**
**Ishikawa, Go-o** Several questions on singularities: theories and applications. (*see* **2001c:14004**)

Items with secondary classifications in 58Kxx

**(Arnol'd, V. I.)** *see* **Topics in singularity theory, 2001a:00040**
**(Khovanskiĭ, Askol'd G.)** *see* **Topics in singularity theory, 2001a:00040**
**(Sosinskiĭ, A. B.)** *see* **Topics in singularity theory, 2001a:00040**
**(Varchenko, A. N.)** *see* **Topics in singularity theory, 2001a:00040**
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**Festschrift:**
**Arnol'd, Vladimir Igorevich** ★ Topics in singularity theory. **2001a:00040**
**Topics in singularity theory** ★ Topics in singularity theory. **2001a:00040**

## 58K05 Critical points of functions and mappings

**Abraham, Ralph Herman** Endosingularities. (English summary) **2001b:58060**
— *see also* **Gardini, Laura et al., 2001b:58061**
**Bischi, Gian Italo** *see* **Gardini, Laura et al., 2001b:58061**
**Cen, Yan Bin** A generalization of the Morse lemma. (Chinese. English and Chinese summaries) **2001h:58052**
**Gardini, Laura** (*with* Bischi, Gian Italo; Abraham, Ralph Herman) A bridge between Whitney's fold and cusp and the critical curves in two-dimensional endomorphisms. **2001b:58061**
**Izumiya, Shyuichi** (*with* Takeuchi, Nobuko) Singularities of ruled surfaces in $\mathbf{R}^3$. (English summary) **2001h:58053**
**Janeczko, Stanisław** On diffractional isotropic varieties. (English summary) **2001h:58054**
**Liu, Ru Yan** Critical points of a metric map from a compact surface to a fixed point. (Chinese. English and Chinese summaries) **2001a:58054**
**Pankov, M. A.** (*with* Polulyakh, E. A.) Some numerical characteristics of critical points of arbitrary mappings from $\mathbf{R}^n$ into $\mathbf{R}^m$. (Russian) **2001e:58050**
— Hausdorff maps. (English summary) **2001e:58051**
**Polulyakh, E. A.** *see* **Pankov, M. A., 2001e:58050**
**Takeuchi, Nobuko** *see* **Izumiya, Shyuichi, 2001h:58053**

Items with secondary classifications in 58K05

**Akhmet'ev, P. M.** Embeddings of compacta, stable homotopy groups of spheres, and singularity theory. (Russian. Russian summary) **2001h:55017**
**Andrica, Dorin** Functions with minimal critical set: new results and open problems. (English summary) **2001g:57064**
**Bruce, J. W.** (*with* Tari, F.) On the multiplicity of implicit differential equations. **2001e:34004**
**Dutertre, Nicolas** Sur la fibre d'un polynôme à points critiques isolés. (English summary) [On the fibers of a polynomial with isolated critical points] **2001a:14062**
**Gusein-Zade, S. M.** On a problem of B. Teissier. (English summary) **2001c:58044**
**Hansen, Vagn Lundsgaard** ★ Fundamental concepts in modern analysis. **2001f:58002**
**Hu, Fan Nu** (*with* Li, Yang Cheng) Versal unfolding for equivariant bifurcation problems with two types of state variables. (Chinese. English and Chinese summaries) **2001k:58088**
**Li, Yang Cheng** *see* **Hu, Fan Nu, 2001k:58088**
**Maksimenko, S. I.** Equivalence of $m$-functions on surfaces. (Ukrainian) **2001c:57033**
**Mormul, Piotr** The strange nongenericness of codimension 1 differential systems in dimension 4 revisited. (English summary) **2001a:58001**
**Romero Fuster, M. C.** (*with* Sanabria Codesal, E.) Generalized evolutes, vertices and conformal invariants of curves in $\mathbf{R}^{n+1}$. (English summary) **2001k:53003**
**Sanabria Codesal, E.** *see* **Romero Fuster, M. C., 2001k:53003**
**Sharko, V. V.** Functions on surfaces. I. (Russian) **2001j:57042**
**Tari, F.** *see* **Bruce, J. W., 2001e:34004**
**Vakhrameev, S. A.** Morse lemmas for smooth functions on manifolds with corners. **2001j:57043**

## 58K10 Monodromy

**A'Campo, Norbert** A combinatorial property of generic immersions of curves. **2001m:58079**
**Frediani, Paola** Monodromies of generic real algebraic functions. (English summary) **2001i:58082**

Items with secondary classifications in 58K10

**Givental, Alexander B.** Singularity theory and symplectic topology. **2001d:53099**
**Mailybaev, A. A.** (*with* Seiranyan, A. P.) On singularities of boundaries of parametric resonance. (Russian) **2001i:34076**
**Seiranyan, A. P.** *see* **Mailybaev, A. A., 2001i:34076**

## 58K15 Topological properties of mappings

**Bruce, J. W.** (*with* Zakalyukin, Vladimir M.) On the geometry of caustics. (English summary) **2001f:58078**
**Èsterov, A. I.** Densities of Betti numbers of sets of smaller values of quasiperiodic functions. (Russian) **2001j:58061**
**Garcia, Ronaldo** (*with* Gutierrez, Carlos; Sotomayor, Jorge) Lines of principal curvature around umbilics and Whitney umbrellas. (English summary) **2001i:58083**
**Gutierrez, Carlos** *see* **Garcia, Ronaldo et al., 2001i:58083**
**Murolo, Claudio** (*with* Trotman, David) Horizontally-$C^1$ controlled stratified maps and Thom's first isotopy theorem. (English, French and Italian summaries) **2001b:58062**
**Sotomayor, Jorge** *see* **Garcia, Ronaldo et al., 2001i:58083**
**Trotman, David** *see* **Murolo, Claudio, 2001b:58062**
**Zakalyukin, Vladimir M.** *see* **Bruce, J. W., 2001f:58078**

Items with secondary classifications in 58K15

**Arnol'd, V. I.** Topological problems in wave propagation theory and topological economy principle in algebraic geometry. (English summary) **2001e:01027**
**Baines, Clare** The multiplicity of the Lyashko-Looijenga mapping on the discriminant strata of even and odd polynomials. **2001a:57042**

**Brown, Daniel S.** (*with* Priest, Eric R.) Topological bifurcations in three-dimensional magnetic fields. (English summary) **2001k:85005**
**Dutertre, Nicolas** Sur la fibre d'un polynôme à points critiques isolés. (English summary) [On the fibers of a polynomial with isolated critical points] **2001a:14062**
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**Gaffney, Terence** Plane sections, $W_f$ and $A_f$. **2001d:32044**
**Jiang, Guangfeng** A formula for the Euler characteristic of line singularities on singular spaces. (English summary) **2001f:32053**
**du Plessis, A. A.** Finiteness of Mather's canonical stratification. (English summary) **2001b:58063**
**Priest, Eric R.** *see* **Brown, Daniel S., 2001k:85005**

## 58K20 Algebraic and analytic properties of mappings

**Anisov, Sergei S.** Integral formulas related to wave fronts. (English summary) **2001k:58080**
**Arnol'd, V. I.** First steps of local contact algebra. (English summary) **2001c:58039**
**Cen, Yan Ming** (*with* Wu, Xin Ling) Algebraic properties of $m(n)^\infty$ and their applications. (Chinese. English and Chinese summaries) **2001f:58079**
**Goryunov, V. V.** Simple functions on space curves. (Russian) **2001g:58065**
**Sano, Takasi** Bifurcations of affine invariants for one-parameter family of generic convex plane curves. (English summary) **2001c:58040**
**Wu, Xin Ling** *see* **Cen, Yan Ming, 2001f:58079**

Items with secondary classifications in 58K20

**Dedieu, Jean-Pierre** (*with* Shub, Michael) On simple double zeros and badly conditioned zeros of analytic functions of $n$ variables. **2001f:65033**
**Gaffney, Terence** Plane sections, $W_f$ and $A_f$. **2001d:32044**
**Izumiya, Shyuichi** (*with* Pei, Donghe; Sano, Takasi) The lightcone Gauss map and the lightcone developable of a spacelike curve in Minkowski 3-space. (English summary) **2001e:53015**
**Pei, Donghe** *see* **Izumiya, Shyuichi et al., 2001e:53015**
**Sano, Takasi** *see* **Izumiya, Shyuichi et al., 2001e:53015**
**Shub, Michael** *see* **Dedieu, Jean-Pierre, 2001f:65033**
**Zhang, Dun-mu** *see* **Zhang, Guo-bin, 2001k:58081**
**Zhang, Guo-bin** (*with* Zhang, Dun-mu) Graded stable unfoldings in bifurcation problems. (English summary) **2001k:58081**

## 58K25 Stability

**Agrachev, Andrei A.** (*with* Charlot, Grégoire; Gauthier, Jean-Paul A.; Zakalyukin, Vladimir M.) On stability of generic subriemannian caustic in the three-space. (English and French summaries) **2001m:58080**
**Bruce, J. W.** (*with* Kirk, N. P.) Generic projections of stable mappings. (English summary) **2001g:58066**
**Charlot, Grégoire** *see* **Agrachev, Andrei A. et al., 2001m:58080**
**Davydov, Aleksei A.** (*with* Zakalyukin, Vladimir M.) Classification of relative minima singularities. **2001c:58041**
**Gauthier, Jean-Paul A.** *see* **Agrachev, Andrei A. et al., 2001m:58080**
**Ishikawa, Go-o** Determinacy, transversality and Lagrange stability. **2001a:58055**
**Kirk, N. P.** *see* **Bruce, J. W., 2001g:58066**
**du Plessis, A. A.** Finiteness of Mather's canonical stratification. (English summary) **2001b:58063**
**Zakalyukin, Vladimir M.** *see* **Davydov, Aleksei A., 2001c:58041** *and* **Agrachev, Andrei A. et al., 2001m:58080**
**Zhang, Dun-mu** *see* **Zhang, Guo-bin, 2001k:58081**
**Zhang, Guo-bin** (*with* Zhang, Dun-mu) Graded stable unfoldings in bifurcation problems. (English summary) **2001k:58081**

Items with secondary classifications in 58K25

**Agrachev, Andrei A.** (*with* Charlot, Grégoire; Gauthier, Jean-Paul A.; Zakalyukin, Vladimir M.) On sub-Riemannian caustics and wave fronts for contact distributions in the three-space. (English summary) **2001m:58081**
**Charlot, Grégoire** *see* **Agrachev, Andrei A. et al., 2001m:58081**
**Fiedler, Bernold** (*with* Mantel, Rolf M.) Crossover collision of scroll wave filaments. (English summary) **2001k:35166**
**Gauthier, Jean-Paul A.** *see* **Agrachev, Andrei A. et al., 2001m:58081**
**Kálmán, Tamás** Stable maps of surfaces into the plane. (English summary) **2001f:57032**
**Mallybaev, A. A.** (*with* Seiranyan, A. P.) On singularities of a boundary of the stability domain. (English summary) **2001f:34091**
— *see also* **Seiranyan, A. P., 2001d:37082**
**Mantel, Rolf M.** *see* **Fiedler, Bernold, 2001k:35166**
**Martelli, Mario Umberto** (*with* Mikaelian, Gareguin; Sindi, Suzanne) Bifurcation for one-parameter families of scalar maps: a geometric viewpoint. (English summary) **2001f:37072**
**Mikaelian, Gareguin** *see* **Martelli, Mario Umberto et al., 2001f:37072**
**Oliveira, R. D. S.** (*with* Tari, F.) On pairs of differential 1-forms in the plane. (English summary) **2001d:37017**
**Pukhlikov, Aleksandr V.** Structurally stable singularities of discontinuous dynamical systems. (Russian. Russian summary) **2001h:37045**
**Seiranyan, A. P.** (*with* Mallybaev, A. A.) On singularities of the stability domain boundaries of Hamiltonian and gyroscopic systems. (Russian) **2001d:37082**
— *see also* **Mallybaev, A. A., 2001f:34091**
**Sindi, Suzanne** *see* **Martelli, Mario Umberto et al., 2001f:37072**
**Tari, F.** *see* **Oliveira, R. D. S., 2001d:37017**
**Wall, C. T. C.** Notes on trimodal singularities. (English summary) **2001a:58058**
**Zakalyukin, Vladimir M.** *see* **Agrachev, Andrei A. et al., 2001m:58081**

## 58K30 Global theory

**Agrachev, Andrei A.** (*with* Charlot, Grégoire; Gauthier, Jean-Paul A.; Zakalyukin, Vladimir M.) On sub-Riemannian caustics and wave fronts for contact distributions in the three-space. (English summary) **2001m:58081**
**Charlot, Grégoire** *see* **Agrachev, Andrei A. et al., 2001m:58081**
**Gauthier, Jean-Paul A.** *see* **Agrachev, Andrei A. et al., 2001m:58081**
**Kudryavtseva, E. A.** Reduction of Morse functions on surfaces to canonical form by smooth deformation. (English and Russian summaries) **2001f:58080**
**Markatis, Stylianos** Birth of umbilic points. (English summary) **2001c:58042**
**Pliakis, Dimitris** *see* **Pnevmatikos, Spyros N., 2001b:58064**
**Pnevmatikos, Spyros N.** (*with* Pliakis, Dimitris) On the singularities of quadratic forms. (English summary) **2001b:58064**
**Rees, Elmer G.** On a question of Milnor concerning singularities of maps. (English summary) **2001b:58065**
**Rimányi, Richárd** Thom polynomials, symmetries and incidences of singularities. (English summary) **2001k:58082**
**Sakuma, Kazuhiro** Several problems in global singularity theory. (Japanese) (*see* **2001c:14004**)
**Shapiro, Boris Z.** Tree-like curves and their number of inflection points. (English summary) **2001a:58056**
**Zakalyukin, Vladimir M.** *see* **Agrachev, Andrei A. et al., 2001m:58081**

Items with secondary classifications in 58K30

**Abraham, Ralph Herman** *see* **Gardini, Laura et al., 2001b:58061**
**A'Campo, Norbert** A combinatorial property of generic immersions of curves. **2001m:58079**
**Andrica, Dorin** Functions with minimal critical set: new results and open problems. (English summary) **2001g:57064**
**Arnol'd, V. I.** Symplectic geometry and topology. (English summary) **2001h:53108**
**Bischi, Gian Italo** *see* **Gardini, Laura et al., 2001b:58061**
**Bruce, J. W.** (*with* Zakalyukin, Vladimir M.) On the geometry of caustics. (English summary) **2001f:58078**
**Chen, Da Duan** (*with* Shi, Wei Hui) On the formal solution of initial value problem of Navier-Stokes equation. (Chinese. English and Chinese summaries) **2001k:35242**
**Davydov, Aleksei A.** (*with* Zakalyukin, Vladimir M.) Classification of relative minima singularities. **2001c:58041**
**Eliashberg, Yakov** (*with* Mishachev, N. M.) Wrinkling of smooth mappings. II. Wrinkling of embeddings and K. Igusa's theorem. (English summary) **2001g:57058**
**Gardini, Laura** (*with* Bischi, Gian Italo; Abraham, Ralph Herman) A bridge between Whitney's fold and cusp and the critical curves in two-dimensional endomorphisms. **2001b:58061**
**Goryunov, V. V.** (*with* Hill, Jonathan W.) Finite-type invariants of Legendrian knots in the 3-space: Maslov index as an order 1 invariant. (English summary) **2001b:57025**
**He, You Hua** (*with* Shi, Wei Hui) The $C^4$ instability of Navier-Stokes equation appending polynomials of unknown functions. (Chinese. English and Chinese summaries) **2001k:35243**
**Hill, Jonathan W.** *see* **Goryunov, V. V., 2001b:57025**
**Il'yashenko, Yu. S.** (*with* Kaloshin, Vadim Yu.) Bifurcation of planar and spatial polycycles: Arnold's program and its development. **2001b:34064**
**Izumiya, Shyuichi** (*with* Takeuchi, Nobuko) Singularities of ruled surfaces in $\mathbf{R}^3$. (English summary) **2001h:58053**
**Janeczko, Stanisław** On implicit Lagrangian differential systems. (English summary) **2001m:37118**
**Kálmán, Tamás** Stable maps of surfaces into the plane. (English summary) **2001f:57032**
**Kaloshin, Vadim Yu.** *see* **Il'yashenko, Yu. S., 2001b:34064**
**Kazaryan, M. È.** Topological invariants of fiber singularities. **2001i:58088**
**Maksimenko, S. I.** Components of spaces of Morse mappings. (Russian) **2001a:57054**
**Mishachev, N. M.** *see* **Eliashberg, Yakov, 2001g:57058**
**Panov, D. A.** Pseudoperiodic mappings. (English summary) **2001i:37035**
**Porteous, Ian R.** Some remarks on duality in $S^3$. (English summary) **2001h:53005**
**Rimányi, Richárd** Computation of the Thom polynomial of $\Sigma^{1111}$ via symmetries of singularities. **2001i:58089**
**Saeki, Osamu** (*with* Sakuma, Kazuhiro) Stable maps between 4-manifolds and elimination of their singularities. (English summary) **2001d:57030**
**Sakuma, Kazuhiro** *see* **Saeki, Osamu, 2001d:57030**
**Sano, Takasi** Bifurcations of affine invariants for one-parameter family of generic convex plane curves. (English summary) **2001c:58040**
**Shi, Wei Hui** *see* **Chen, Da Duan, 2001k:35242** *and* **He, You Hua, 2001k:35243**
**Shibata, Naoki**[2] On non-singular stable maps of 3-manifolds with boundary into the plane. (English summary) **2001i:57044**
**Szűcs, András** On the singularities of hyperplane projections of immersions. (English summary) **2001c:57031**
**Takeuchi, Nobuko** *see* **Izumiya, Shyuichi, 2001h:58053**
**Zakalyukin, Vladimir M.** *see* **Davydov, Aleksei A., 2001c:58041** *and* **Bruce, J. W., 2001f:58078**

## 58K35 Catastrophe theory

**(Edelev, M. G.)** *see* **Kravtsov, Yu. A., 2001d:58046**
**Ehlers, Jürgen** (*with* Newman, Ezra T.) The theory of caustics and wave front singularities with physical applications. (English summary) **2001k:58083**
**Fan, Weicheng** *see* **Xie, Zhikang et al., 2001j:58062**
**Kravtsov, Yu. A.** (*with* Orlov, Yu. I.) ★ Caustics, catastrophes and wave fields. (English summary) **2001d:58046**
**Margalef Roig, Juan** (*with* Outerelo Domínguez, Enrique) Catastrophe theory. (Spanish. Spanish summary) **2001k:58084**
**Newman, Ezra T.** *see* **Ehlers, Jürgen, 2001k:58083**
**Orlov, Yu. I.** *see* **Kravtsov, Yu. A., 2001d:58046**
**Outerelo Domínguez, Enrique** *see* **Margalef Roig, Juan, 2001k:58084**

**Wang, Qing'an** *see* **Xie, Zhikang et al., 2001j:58062**
**Xie, Zhikang** (*with* Fan, Weicheng; Wang, Qing'an) Catastrophe mechanism and classification of discontinuity behavior in thermal science. I. Fold catastrophe. (English summary) **2001j:58062**

Items with secondary classifications in 58K35

**Chan Man Fong, C. F.** (*with* De Kee, D.) ★ Perturbation methods, instability, catastrophe and chaos. **2001j:37001**
**(Chillingworth, D. R. J.)** *see* **Demazure, Michel, 2001m:37096**
**De Kee, D.** *see* **Chan Man Fong, C. F., 2001j:37001**
**Demazure, Michel** ★ Bifurcations and catastrophes. (English summary) **2001m:37096**
**Gavrilov, Nikolaĭ** (*with* Shil'nikov, A. L.) Example of a blue sky catastrophe. (English summary) **2001g:37076**
**Korobeĭnikov, V. P.** Methods for studying the critical states of continua. (Russian) **2001e:80005**
**Maier, Robert S.** (*with* Stein, Daniel L.) The birth of a cusp: the unfolding of a "boundary catastrophe". (English summary) (*see* **2001e:00026**)
**Puu, Tönu** ★ Attractors, bifurcations, and chaos. (English summary) **2001g:91073**
**Shil'nikov, A. L.** *see* **Gavrilov, Nikolaĭ, 2001g:37076**
**Shil'nikov, L. P.** (*with* Turaev, D. V.) A new simple bifurcation of a periodic orbit of "blue sky catastrophe" type. (English summary) **2001i:37078**
**Stein, Daniel L.** *see* **Maier, Robert S., (2001e:00026)**
**Turaev, D. V.** *see* **Shil'nikov, L. P., 2001i:37078**

## 58K40 Classification; finite determinacy of map germs

**Arnol'd, V. I.** Singularities of fractions and the behavior of polynomials at infinity. (Russian) **2001a:58057**
**Ausina, C. Bivià** (*with* Nuño Ballesteros, Juan José) Multiplicity of iterated Jacobian extensions of weighted homogeneous map germs. (English summary) **2001g:58067**
**Gnezdilov, A. V.** Bifurcations of critical tori for functionals with 3-circular symmetry. (Russian) **2001i:58084**
**Grandjean, V.** Finite determinacy relative to closed and finitely generated ideals. (English summary) **2001k:58085**
**Kirk, N. P.** Computational aspects of classifying singularities. (English summary) **2001g:58068**
**Mormul, Piotr** Goursat flags: classification of codimension-one singularities. (English summary) **2001f:58081**
**Nuño Ballesteros, Juan José** *see* **Ausina, C. Bivià, 2001g:58067**
**Siersma, Dirk** (*with* Smeltink, J. W.) Classification of singularities at infinity of polynomials of degree 4 in two variables. (English summary) **2001f:58082**
**Smeltink, J. W.** *see* **Siersma, Dirk, 2001f:58082**
**Thilliez, Vincent** Germes de détermination infinie dans des classes lisses. (English summary) [Infinitely determined germs in smooth classes] **2001b:58066**
**Wall, C. T. C.** Notes on trimodal singularities. (English summary) **2001a:58058**
**Xiong, Jianfei** (*with* Zou, Jian Cheng) Classifications of $(2,1)$-stable and $(1,2)$-stable unfoldings of map germs with codimension $\leq 3$. (English summary) **2001i:58085**
**Zakalyukin, Vladimir M.** Contact singularities with 3-flags. (Russian) **2001c:58043**
**Zou, Jian Cheng** *see* **Xiong, Jianfei, 2001i:58085**

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**Arnol'd, V. I.** Simple singularities of curves. (Russian. Russian summary) **2001j:32025**
**Fukui, Toshizumi** (*with* Paunescu, Laurentiu) Modified analytic trivialization for weighted homogeneous function-germs. (English summary) **2001a:58060**
**Ishikawa, Go-o** Determinacy, transversality and Lagrange stability. **2001a:58055**
**Izumiya, Shyuichi** Singularities of solutions for first order partial differential equations. (English summary) **2001h:35004**
— (*with* Takeuchi, Nobuko) Singularities of ruled surfaces in $\mathbf{R}^3$. (English summary) **2001h:58053**
**Janeczko, Stanisław** On diffractional isotropic varieties. (English summary) **2001h:58054**
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## 58K45 Singularities of vector fields, topological aspects

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**Fukui, Toshizumi** Butterflies and umbilics of stable perturbations of analytic map-germs $(\mathbf{C}^3,0)\to(\mathbf{C}^4,0)$. (English summary) **2001a:58061**
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**Wallace C., Myrna** (*with* Burgos Vega, Hernán; Billeke G., J.) Generic 4-parameter family of planar vector fields. Global bifurcations of an improper saddle-node singularity as a perturbed Hamiltonian system. (English summary) **2001h:34054**

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**Wood, David Andrew** A cautionary tale of coupling cells with internal symmetries. (English summary) **2001m:37106**
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## 58K99 None of the above, but in this section

**Farkas, Henrik** *see* **Volford, András et al., 2001a:58062**
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## 58Z05 Applications to physics

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**Chruściński, Dariusz** SO(2) symmetry of a Maxwell $p$-form theory. (English summary) **2001a:83051**

# 60–XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX.}

## 60–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Anděl, Jiří** ★ Mathematics of chance. (English summary) **2001j:60001**
**Azizov, Aziz Mustafaevich** (*with* Kuritsyn, A. G.; Nikitenko, V. G.) ★ Основы прикладной математики. (Russian. Russian summary) [Fundamentals of applied mathematics]
**Bruss, F. Thomas** (*with* Rüschendorf, Ludger) The switching problem and conditionally specified distribution. (English summary) **2001d:60001**
**Capiński, Marek** (*with* Zastawniak, Tomasz) ★ Probability through problems. (English summary) **2001j:60002**
**Chung, Kai Lai** ★ A course in probability theory. **2001g:60001**
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**Mikosch, Thomas** ★ Elementary stochastic calculus—with finance in view. **2001c:60001**
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**Shorack, Galen R.** ★ Probability for statisticians. (English summary) **2001d:60002**
**Stroock, Daniel W.** Doing analysis by tossing a coin. (English summary) **2001j:60003**
**Thorisson, Hermann** ★ Coupling, stationarity, and regeneration. **2001b:60003**
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**Probability** *see* **Capiński, Marek, 2001j:60002**

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**Barbut, Marc** Une application de l'algèbre linéaire: le calcul des probabilités. (English and French summaries) [An application of linear algebra: probability theory] **2001f:01026**
**Bouchaud, Jean-Philippe** (*with* Potters, Marc) ★ Theory of financial risks. (English summary) **2001f:91001**
**(Doléans-Dade, Catherine)** *see* **Ash, Robert B., 2001j:28001**
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**Haigh, John[1]** ★ Taking chances. (English summary) **2001f:60009**
**Panangaden, Prakash** Measure and probability for concurrency theorists. (English summary) **2001k:68097**
**Potters, Marc** *see* **Bouchaud, Jean-Philippe, 2001f:91001**
**Sornette, Didier** ★ Critical phenomena in natural sciences. (English summary) **2001i:82001**
**Steele, J. Michael** ★ Stochastic calculus and financial applications. (English summary) **2001i:60080**

## 60–02 Research exposition (monographs, survey articles)

**(Aries, A. B.)** *see* **Liptser, Robert Sh., 2001k:60001a** *and* **2001k:60001b**
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**Liptser, Robert Sh.** (*with* Shiryaev, Albert N.) ★ Statistics of random processes. I. (English summary) **2001k:60001a**
— (*with* Shiryaev, Albert N.) ★ Statistics of random processes. II. (English summary) **2001k:60001b**
**Shiryaev, Albert N.** *see* **Liptser, Robert Sh., 2001k:60001a** *and* **2001k:60001b**

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**Asmussen, Soren** ★ Ruin probabilities. **2001m:62119**
**Doob, Joseph L.** ★ Classical potential theory and its probabilistic counterpart. **2001j:31002**
**Grimmett, Geoffrey R.** ★ Percolation. **2001a:60114**
— Percolation. **2001m:60225**
**Komorowski, Tomasz** Brownian motion in a Poisson obstacle field. (English summary) **2001j:60148**
**Situ, Rong** ★ Reflecting stochastic differential equations with jumps and applications. (English summary) **2001g:60151**

## 60–03 Historical (must also be assigned at least one classification number from Section 01)

**Bingham, Nicholas H.** Studies in the history of probability and statistics. XLVI. Measure into probability: from Lebesgue to Kolmogorov. (English summary) **2001f:60001**
— *see also* **Holgate, Philip, 2001j:60005**
**(Borel, Émile)** *see* **Bru, Bernard et al., 2001m:60001**
**Bru, Bernard** (*with* Bru, Marie-France; Chung, Kai Lai) Borel et la martingale de Saint-Pétersbourg. (English and French summaries) [Borel and the St. Petersburg martingale] **2001m:60001**
**Bru, Marie-France** *see* **Bru, Bernard et al., 2001m:60001**
**Chung, Kai Lai** *see* **Bru, Bernard et al., 2001m:60001**
**Efron, Bradley** R. A. Fisher in the 21st century [MR 99e:62004]. (English summary)
**(Fisher, Ronald Aylmer)** *see* **Efron, Bradley**
**Hauser, Walter** ★ Die Wurzeln der Wahrscheinlichkeitsrechnung. (German) [The roots of probability theory] **2001j:60004**
**Holgate, Philip** Studies in the history of probability and statistics. XLV. The late Philip Holgate's paper: "Independent functions. Probability and analysis in Poland between the Wars". **2001j:60005**
**Les'ko, L. G.** Axiomatics of probability theory at the beginning of the twentieth century. (Ukrainian. Ukrainian summary)
**(Nekrasov, P. A.)** *see* **Solov'ev, A. D.**
**Solov'ev, A. D.** P. A. Nekrasov and the central limit theorem in probability theory. (Russian. English summary)

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**Athreya, Krishna B.** Professor Srinivasa R. S. Varadhan. **2001a:01041**
**(Bachelier, Louis)** *see* **Taqqu, Murad S., 2001i:01043**
**Barbut, Marc** Une application de l'algèbre linéaire: le calcul des probabilités. (English and French summaries) [An application of linear algebra: probability theory] **2001f:01026**
**(Bru, Bernard)** *see* **Taqqu, Murad S., 2001i:01043** *and* **Doeblin, Wolfgang**
**Doeblin, Wolfgang** Sur l'équation de Kolmogoroff. [On the Kolmogorov equation]
— Exposés et trois notes aux Comptes rendus. [Exposés and three notes to the Comptes rendus]
**Hida, Takeyuki** From classical functional analysis to stochastic analysis—especially tracing the development of functional analysis in Italy and France. (Japanese) (*see* **2001c:01002**)
**Holbrook, John A.** (*with* Kim, Sung Soo[1]) Bertrand's paradox revisited.
**Ineichen, Robert** Chancen im Zahlenlotto—die frühesten Berechnungen. (German summary) [Chances in lotto—earliest calculations] **2001f:01027**
**Kılıç, Berna Eden** John Venn's evolutionary logic of chance. **2001c:01020**
**Kim, Sung Soo[1]** *see* **Holbrook, John A.**
**Salsburg, David** ★ The lady tasting tea. (English summary) **2001j:62005**
**Santos del Cerro, Jesús** A theory about the creation of the modern concept of probability: Spanish contributions. (Spanish. English and Spanish summaries) **2001k:01026**
**Serfati, Michel** À la recherche des *Lois de la pensée*. Sur l'épistémologie du calcul logique et du calcul des probabilités chez Boole. (English and French summaries) [The search for the *Laws of thought*. On the epistemology of Boole's logical calculus and probability theory] **2001m:01033**
**Sevast'yanov, B. A.** Branching processes: a glimpse into the past. (Russian) **2001k:60125**
**Shiryaev, Albert N.** On the history of the founding of the Russian Academy of Sciences and on the first publications on probability theory in Russian editions. (Russian) **2001b:01011**
**Streater, R. F.** Classical and quantum probability. (English summary) **2001j:81011**
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**(Varadhan, Srinivasa R. S.)** *see* **Athreya, Krishna B., 2001a:01041**
**(Venn, John)** *see* **Kılıç, Berna Eden, 2001c:01020**

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**Bachelier, Louis** *see* **Taqqu, Murad S., 2001i:01043**
**Biography:**
**Bachelier, Louis** *see* **Taqqu, Murad S., 2001i:01043**
**Varadhan, Srinivasa R. S.** *see* **Athreya, Krishna B., 2001a:01041**

## 60–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 60–04

**Frontini, M.** (*with* Tagliani, Aldo) Inverse $Z$ transform for probability mass functions. (English and Italian summaries) (*see* **2001i:65003**)
**Tagliani, Aldo** *see* **Frontini, M., (2001i:65003)**

## 60–06 Proceedings, conferences, collections, etc.

**Antonyuk, A. Val.** (*with* Antonyuk, A. Vikt.) ★ Nonlinear estimates on regularity of non-Lipschitz diffusions.
**Antonyuk, A. Vikt.** *see* **Antonyuk, A. Val.**
**(Azéma, J.)** *see* **Seminar: Probability Theory, 2001b:60004** *and* **2001b:60005**
**(Barndorff-Nielsen, Ole E.)** *see* **Lévy processes, 2001m:60004**
**(Bernard, Pierre)** *see* **Emery, Michel et al., 2001c:60003**
**(Bruss, F. Thomas)** *see* **Game theory, optimal stopping, probability and statistics, 2001m:60002**
**(Budzban, Gregory)** *see* **Probability on algebraic structures, 2001d:60004**
**(Butković, D.)** *see* **Functional analysis, 2001j:60006**
**(Clément, Philippe)** *see* **Infinite dimensional stochastic analysis, 2001m:60003**
**(Dawson, Donald A.)** *see* **Stochastic models, 2001b:60006**
**(Dobrushin, Roland L'vovich)** *see* **Dobrushin's way. From probability theory to statistical physics, 2001a:60001**
**(Dshalalow, Jewgeni H.)** *see* **Special Issue: Advances in applied stochastics**
**(Dunlop, François)** *see* **Inhomogeneous random systems**
**Emery, Michel** (*with* Nemirovskii, Arkadii; Voiculescu, Dan) ★ Lectures on probability theory and statistics. **2001c:60003**

— *see also* **Seminar: Probability Theory, 2001b:60004** *and* **2001b:60005**
**(Feinsilver, Philip)** *see* **Probability on algebraic structures, 2001d:60004**
**(Feng, Shui)** *see* **Hydrodynamic limits and related topics, 2001f:60002**
**(Ferguson, Thomas S.)** *see* **Game theory, optimal stopping, probability and statistics, 2001m:60002**
**(Gil, María Angeles)** *see* **Fuzzy random variables**
**(Gobron, Thierry)** *see* **Inhomogeneous random systems**
**(González Barrios, José M.)** *see* **Stochastic models, 2001e:60004**
**(Gorostiza, Luis G.)** *see* **Stochastic models, 2001b:60006** *and* **2001e:60004**
**(Hida, Takeyuki)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(den Hollander, Frank)** *see* **Infinite dimensional stochastic analysis, 2001m:60003**
**(Ivanoff, B. Gail)** *see* **Stochastic models, 2001b:60006**
**(Janssen, Jacques)** *see* **Semi-Markov models and applications, 2001a:60002**
**(Kallianpur, Gopinath)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Karandikar, Rajeeva L.)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Kôno, Norio)** *see* **Trends in probability and related analysis, 2001j:60007**
**(Kraljević, H.)** *see* **Functional analysis, 2001j:60006**
**(Kunita, Hiroshi)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Lawniczak, Anna T.)** *see* **Hydrodynamic limits and related topics, 2001f:60002**
**(Le Cam, Lucien)** *see* **Game theory, optimal stopping, probability and statistics, 2001m:60002**
**(Ledoux, Michel)** *see* **Seminar: Probability Theory, 2001b:60004** *and* **2001b:60005**
**(Limnios, N.)** *see* **Semi-Markov models and applications, 2001a:60002**
**(McDonald, David R.)** *see* **Analysis of communication networks: call centres, traffic and performance, 2001e:60001**
**(Mikosch, Thomas)** *see* **Lévy processes, 2001m:60004**
**(Minlos, R. A.)** *see* **Dobrushin's way. From probability theory to statistical physics, 2001a:60001**
**(Mukherjea, Arunava)** *see* **Probability on algebraic structures, 2001d:60004**
**(van Neerven, J. M. A. M.)** *see* **Infinite dimensional stochastic analysis, 2001m:60003**
**Nemirovskii, Arkadii** *see* **Emery, Michel et al., 2001c:60003**
**(de Pagter, B.)** *see* **Infinite dimensional stochastic analysis, 2001m:60003**
**(Peskir, Goran)** *see* **Functional analysis, 2001j:60006**
**(Picardello, Massimo A.)** *see* **Random walks and discrete potential theory, 2001g:60004**
**(Prokhorov, Yurii Vasil'evich)** *see* **Limit theorems of probability theory, 2001f:60003**
**(Rajput, Balram S.)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Resnick, Sidney I.)** *see* **Lévy processes, 2001m:60004**
**(Saada, Ellen)** *see* **Inhomogeneous random systems**
**(Shanthikumar, J. George)** *see* **Applied probability and stochastic processes, 2001d:60003**
**(Shieh, Narn-Rueih)** *see* **Trends in probability and related analysis, 2001j:60007**
**(Shlosman, Senya B.)** *see* **Dobrushin's way. From probability theory to statistical physics, 2001a:60001**
**(Statulevičius, Vytautas)** *see* **Limit theorems of probability theory, 2001f:60003**
**(Sukhov, Yu. M.)** *see* **Dobrushin's way. From probability theory to statistical physics, 2001a:60001**
**(Sumita, Ushio)** *see* **Applied probability and stochastic processes, 2001d:60003**
**(Taylor, John Christopher)** *see* **Topics in probability and Lie groups: boundary theory, 2001m:60005**
**(Turner, Stephen R. E.)** *see* **Analysis of communication networks: call centres, traffic and performance, 2001e:60001**
**(Varadhan, Srinivasa R. S.)** *see* **Hydrodynamic limits and related topics, 2001f:60002**
**Voiculescu, Dan** *see* **Emery, Michel et al., 2001c:60003**
**(Watanabe, Shinzo)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Woess, Wolfgang)** *see* **Random walks and discrete potential theory, 2001g:60004**
**(Xiong, Jie)** *see* **Stochastics in finite and infinite dimensions, 2001f:60005**
**(Yor, Marc)** *see* **Seminar: Probability Theory, 2001b:60004** *and* **2001b:60005**

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**American Mathematical Society Translations, Series 2** ★ On Dobrushin's way. From probability theory to statistical physics. **2001a:60001**
**Amsterdam** ★ Infinite dimensional stochastic analysis. **2001m:60003**
**Analysis of communication networks: call centres, traffic and performance** ★ Analysis of communication networks: call centres, traffic and performance. **2001e:60001**
**Anniversary:**
  **Birth of Dobrushin, Roland L'vovich** ★ On Dobrushin's way. From probability theory to statistical physics. **2001a:60001**
**Applied probability and stochastic processes** ★ Applied probability and stochastic processes. **2001d:60003**
**Atlantic City, NJ** ★ Fuzzy random variables.
**Cergy-Pontoise** ★ Inhomogeneous random systems.
**Compiègne** ★ Semi-Markov models and applications. **2001a:60002**
**Conference:**
  **Fuzzy Theory and Technology** ★ Fuzzy random variables.
  **Stochastic Models** ★ Stochastic models. **2001b:60006**
**Contemporary Mathematics** ★ Probability on algebraic structures. **2001d:60004**
**Cortona** ★ Random walks and discrete potential theory. **2001g:60004**
**Dobrushin's way. From probability theory to statistical physics** ★ On Dobrushin's way. From probability theory to statistical physics. **2001a:60001**
**Dubrovnik** ★ Functional analysis. VI. **2001j:60006**
**Fascicule de probabilités** ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
**Festschrift:**
  **Dawson, Donald A.** ★ Stochastic models. **2001b:60006**
  **Ferguson, Thomas S.** ★ Game theory, optimal stopping, probability and statistics. **2001m:60002**
  **Kallianpur, Gopinath** ★ Stochastics in finite and infinite dimensions. **2001f:60005**
**Functional analysis** ★ Functional analysis. VI. **2001j:60006**
**Fuzzy random variables** ★ Fuzzy random variables.
**Gainesville, FL** ★ Probability on algebraic structures. **2001d:60004**
**Game theory, optimal stopping, probability and statistics** ★ Game theory, optimal stopping, probability and statistics. **2001m:60002**
**Guanajuato** ★ Modelos estocásticos. [Stochastic models] **2001e:60004**
**Hydrodynamic limits and related topics** ★ Hydrodynamic limits and related topics. **2001f:60002**
**Infinite dimensional stochastic analysis** ★ Infinite dimensional stochastic analysis. **2001m:60003**
**Inhomogeneous random systems** ★ Inhomogeneous random systems.
**Issue on probability theory** ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
**Lecture Notes in Mathematics** ★ Séminaire de Probabilités. XXXIII. [Seminar on Probability Theory. XXXIII] **2001b:60004**
— ★ Séminaire de Probabilités. XXXIV. [Seminar on Probability Theory. XXXIV] **2001b:60005**
**Lectures on probability theory and statistics** *see* **Emery, Michel et al., 2001c:60003**
**Lévy processes** ★ Lévy processes. **2001m:60004**
**Limit theorems of probability theory** ★ Limit theorems of probability theory. **2001f:60003**
**Marseille** ★ 19th "Rencontres Franco-Belges de Statisticiens". [19th "Franco-Belgian Meeting of Statisticians]
**Meeting:**
  **Statisticians** ★ 19th "Rencontres Franco-Belges de Statisticiens". [19th "Franco-Belgian Meeting of Statisticians]
**New developments in infinite-dimensional analysis and quantum probability theory** ★ Mugen jigen kaiseki to ryōshi kakuritsuron no shin tenkai. [New developments in infinite-dimensional analysis and quantum probability theory] **2001e:60003**
**Nonlinear estimates on regularity of non-Lipschitz diffusions** *see* **Antonyuk, A. Val.**
**Ottawa, ON** ★ Stochastic models. **2001b:60006**
**Probability on algebraic structures** ★ Probability on algebraic structures. **2001d:60004**
**Random walks and discrete potential theory** ★ Random walks and discrete potential theory. **2001g:60004**
**Recent trends in stochastic models arising in natural phenomena and the theory of measure-valued stochastic processes** ★ Shizen genshō ni okeru kakuritsu moderu to sokudo chi kakuritsu katei ron no dōkō. (Japanese) [Recent trends in stochastic models arising in natural phenomena and the theory of measure-valued stochastic processes] **2001f:60004**
**Rennes** ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
**Saint-Flour** *see* **Emery, Michel et al., 2001c:60003**
**School:**
  **Probability Theory** *see* **Emery, Michel et al., 2001c:60003**
**Semi-Markov models and applications** ★ Semi-Markov models and applications. **2001a:60002**
**Seminar:**
  **Probability Theory** ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
  — ★ Séminaire de Probabilités. XXXIII. [Seminar on Probability Theory. XXXIII] **2001b:60004**
  — ★ Séminaire de Probabilités. XXXIV. [Seminar on Probability Theory. XXXIV] **2001b:60005**
**Session:**
  **Probability on Algebraic Structures** ★ Probability on algebraic structures. **2001d:60004**
**Special Issue:**
  **Advances in applied stochastics** ★ Special issue: Advances in applied stochastics.
**Stochastic models** ★ Modelos estocásticos. [Stochastic models] **2001e:60004**
— ★ Stochastic models. **2001b:60006**
**Stochastics in finite and infinite dimensions** ★ Stochastics in finite and infinite dimensions. **2001f:60005**
**Symposia Mathematica** ★ Random walks and discrete potential theory. **2001g:60004**
**Symposium:**
  **Analysis and Probability** ★ Trends in probability and related analysis. **2001j:60007**
  **New Developments in Infinite-dimensional Analysis and Quantum Probability Theory** ★ Mugen jigen kaiseki to ryōshi kakuritsuron no shin tenkai. [New developments in infinite-dimensional analysis and quantum probability theory] **2001e:60003**
  **Probability and Stochastic Processes** ★ Modelos estocásticos. [Stochastic models] **2001e:60004**
  **Recent Trends in Stochastic Models Arising in Natural Phenomena and the Theory of Measure-valued Stochastic Processes** ★ Shizen genshō ni okeru kakuritsu moderu to sokudo chi kakuritsu katei ron no dōkō. (Japanese) [Recent trends in stochastic models arising in natural phenomena and the theory of measure-valued stochastic processes] **2001f:60004**
  **Semi-Markov Models: Theory and Applications** ★ Semi-Markov models and applications. **2001a:60002**
**Taipei** ★ Trends in probability and related analysis. **2001j:60007**
**Topics in probability and Lie groups: boundary theory** ★ Topics in probability and Lie groups: boundary theory. **2001m:60005**
**Toronto, ON** ★ Analysis of communication networks: call centres, traffic and performance. **2001e:60001**
— ★ Hydrodynamic limits and related topics. **2001f:60002**
**Trends in probability and related analysis** ★ Trends in probability and related analysis. **2001j:60007**
**Workshop:**
  **Analysis and Simulation of Communication Networks** ★ Analysis of communication networks: call centres, traffic and performance. **2001e:60001**
  **Hydrodynamic Limits** ★ Hydrodynamic limits and related topics. **2001f:60002**

Items with secondary classifications in 60–06

**(Accardi, Luigi)** *see* **Recent developments in infinite-dimensional analysis and quantum probability**
**(Al'beverio, S.)** *see* **Stochastic processes, physics and geometry: new interplays, 2001f:00036** *and* **2001f:00037**
**(Berkes, István)** *see* **Endre Csáki 65**
**(Csáki, Endre)** *see* **Endre Csáki 65**
**(De Vylder, Floriaan)** *see* **Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday**

(Gardy, Danièle) *see* Mathematics and computer science, 2001f:68013
(Gerber, Hans U.) *see* Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday
(Gesztesy, Fritz) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Goovaerts, Marc J.) *see* Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday
(Heyer, Herbert) *see* Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027
(Hida, Takeyuki) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Holden, Helge) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Jost, Jürgen) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Kaas, Rob) *see* Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday
(Kuo, Hui-Hsiung) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Limnios, N.) *see* Recent advances in reliability theory, 2001c:62004
(Marion, Jean A.) *see* Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027
(Mokkadem, Abdelkader) *see* Mathematics and computer science, 2001f:68013
(Murthy, D. N. P.) *see* Stochastic models in engineering, technology, and management, 2001a:90008
(Nikulin, Mikhail S.) *see* Recent advances in reliability theory, 2001c:62004
(Obata, Nobuaki) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Osaki, Shunji) *see* Stochastic models in engineering, technology, and management, 2001a:90008
(Paycha, Sylvie) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Rebolledo, Rolando) *see* Stochastic analysis and mathematical physics, 2001a:81008
(Révész, Pál) *see* Endre Csáki 65
(Röckner, Michael) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Saitô, Kimiaki) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Scarlatti, Sergio) *see* Stochastic processes, physics and geometry: new interplays, 2001f:00036 *and* 2001f:00037
(Shiu, Elias S. W.) *see* Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday
(Si Si) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Skyrms, Brian) *see* Statistics and causation, 2001a:00009
(Stoka, Marius I.) *see* Conference: Stochastic Geometry, Convex Bodies and Empirical Measures, 2001h:00022
(Streit, Ludwig) *see* Recent developments in infinite-dimensional analysis and quantum probability
(Tóth, Bálint) *see* Endre Csáki 65
(Wilson, Richard J.) *see* Stochastic models in engineering, technology, and management, 2001a:90008

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**Analysis on infinite-dimensional Lie groups and algebras** ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
**Birthday:**
**De Vylder, Etienne** ★ Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday.
**Bordeaux** ★ Recent advances in reliability theory. **2001c:62004**
**Colloquium:**
**Analysis on Infinite-Dimensional Lie Groups and Algebras** ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
**Mathematics and Computer Science** ★ Mathematics and computer science. **2001f:68013**
**Conference:**
**Applied Probability** ★ INFORMS Applied Probability Conference. **2001g:91003**
**Infinite-dimensional (Stochastic) Analysis and Quantum Physics** ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
**Mathematical Methods in Reliability** ★ Recent advances in reliability theory. **2001c:62004**
**Stochastic Geometry, Convex Bodies and Empirical Measures** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
**Endre Csáki 65** ★ Endre Csáki 65.
**Festschrift:**
**Albeverio, Sergio A.** ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
**Csáki, Endre** ★ Endre Csáki 65.
**De Vylder, Etienne** ★ Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday.
**Hida, Takeyuki** ★ Recent developments in infinite-dimensional analysis and quantum probability.
**Gold Coast** ★ Stochastic models in engineering, technology, and management. **2001a:90008**
**Leipzig** ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
**Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday** ★ Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday.
**Marseille** ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
**Mathematics and computer science** ★ Mathematics and computer science. **2001f:68013**
**Mazara del Vallo** ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
**Poznan** ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**
**Proceedings:**
**Conference "Random Structures and Algorithms"** ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**
**Recent advances in reliability theory** ★ Recent advances in reliability theory. **2001c:62004**
**Recent developments in infinite-dimensional analysis and quantum probability** ★ Recent developments in infinite-dimensional analysis and quantum probability.
**Santiago** ★ Stochastic analysis and mathematical physics. **2001a:81008**
**Special Issue:**
**Statistics and causation** ★ Statistics and causation. **2001a:00009**
**Statistics and causation** ★ Statistics and causation. **2001a:00009**
**Stochastic analysis and mathematical physics** ★ Stochastic analysis and mathematical physics. **2001a:81008**
**Stochastic models in engineering, technology, and management** ★ Stochastic models in engineering, technology, and management. **2001a:90008**
**Stochastic processes, physics and geometry: new interplays** ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
**Ulm** ★ INFORMS Applied Probability Conference. **2001g:91003**
**Versailles** ★ Mathematics and computer science. **2001f:68013**
**Workshop:**
**Stochastic Analysis and Mathematical Physics** ★ Stochastic analysis and mathematical physics. **2001a:81008**
**Stochastic Models in Engineering, Technology, and Management** ★ Stochastic models in engineering, technology, and management. **2001a:90008**

# 60Axx Foundations of probability theory

## 60A05 Axioms; other general questions

**Clark, Stephen A.** The measurement of qualitative probability. (English summary) **2001e:60005**
**Derriennic, Yves** (*with* Klopotowski, Andrzej) On Bernstein's example of three pairwise independent random variables. (English summary) **2001m:60006**
**Klopotowski, Andrzej** *see* **Derriennic, Yves, 2001m:60006**
**Maturo, Antonio** On a non-standard algebraic hyperstructure and its application to the coherent probability assessments. (English summary) **2001i:60001**
**Minozzo, Marco** Purely game-theoretic random sequences. I. Strong law of large numbers and law of the iterated logarithm. (Russian summary) **2001m:60007**
**Nakamura, Yutaka** Threshold models for comparative probability on finite sets. (English summary) **2001e:60006**

Items with secondary classifications in 60A05

**Anisimov, N. Yu.** (*with* Demidov, E. E.) Randomness: algebraic, statistical and complexity theory aspects. **2001b:68060**
**Bartha, Paul** (*with* Hitchcock, Christopher) No one knows the date or the hour: an unorthodox application of Rev. Bayes's theorem. (English summary) **2001b:03023**
**Berti, Patrizia** (*with* Fattorini, Lorenzo; Rigo, Pietro) Eliminating nuisance parameters: two characterizations. (English summary)
**Coletti, Giulianella** (*with* Scozzafava, Romano) The role of coherence in eliciting and handling imprecise probabilities and its application to medical diagnosis. (English summary)
**de Cooman, Gert** *see* **Walley, Peter, 2001b:68134**
**Demidov, E. E.** *see* **Anisimov, N. Yu., 2001b:68060**
**Döring, Frank** Conditional probability and Dutch books. (English summary) **2001j:03041**
**Dubins, Lester E.** Paths of finitely additive Brownian motion need not be bizarre. (English summary) **2001c:60127**
**Fattorini, Lorenzo** *see* **Berti, Patrizia et al.**
**Föllmer, Hans** (*with* Wu, Ching-Tang; Yor, Marc) Canonical decomposition of linear transformations of two independent Brownian motions motivated by models of insider trading. (English summary) **2001b:60058**
**Friedman, Charles** The frequency interpretation in probability. (English summary) **2001i:68068**
**Galavotti, Maria Carla** Some remarks on objective chance (F. P. Ramsey, K. R. Popper and N. R. Campbell).
**Hitchcock, Christopher** *see* **Bartha, Paul, 2001b:03023**
**Holbrook, John A.** (*with* Kim, Sung Soo[1]) Bertrand's paradox revisited.
**Howson, Colin** The Bayesian approach. **2001d:68211**
**Hutchison, Keith** What are conditional probabilities conditional upon? (English summary) **2001m:00006**
**Kadane, Joseph B.** (*with* Schervish, Mark J.; Seidenfeld, Teddy) ★ Rethinking the foundations of statistics. **2001k:62005**
**Khrennikov, Andrei** Laws of large numbers in non-Archimedean probability theory. (Russian. Russian summary) **2001g:60014**
**Kim, Sung Soo[1]** *see* **Holbrook, John A.**
**Kyburg, Henry E., Jr.** Families of probabilities. **2001b:03024**
**Narayanan, Krishna** *see* **Verriest, Erik I., 2001c:81011**
**Rigo, Pietro** *see* **Berti, Patrizia et al.**
**Schervish, Mark J.** *see* **Kadane, Joseph B. et al., 2001k:62005**
**Scozzafava, Romano** *see* **Coletti, Giulianella**
**Seidenfeld, Teddy** *see* **Kadane, Joseph B. et al., 2001k:62005**
**Verriest, Erik I.** (*with* Narayanan, Krishna) An excursion in finite-field-valued measures. (English summary) **2001c:81011**
**Walley, Peter** (*with* de Cooman, Gert) Coherence of rules for defining conditional possibility. (English summary) **2001b:68134**
— Towards a unified theory of imprecise probability. (English summary) **2001c:28007**
**Wu, Ching-Tang** *see* **Föllmer, Hans et al., 2001b:60058**

**Yor, Marc** *see* **Föllmer, Hans et al., 2001b:60058**

Items listed otherwise than by author

**Rethinking the foundations of statistics** *see* **Kadane, Joseph B. et al., 2001k:62005**

## 60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

**Belili, Nacereddine** Dualité du problème des marges et ses applications. (English and French summaries) [Duality of the marginal problem and applications] **2001c:60004**

**Florea, Dorel** Some properties of finitely additive probabilities. (English summary)

**Goldstein, Michael** Avoiding foregone conclusions: geometric and foundational analysis of paradoxes of finite additivity. (English summary) **2001m:60008**

**Hlubinka, Daniel** *see* **Štěpán, Josef, 2001c:60005**

**Kadane, Joseph B.** *see* **Seidenfeld, Teddy et al., 2001b:60007**

**Lelekov, R. A.** Necessary and sufficient conditions for the convergence of conditional mathematical expectations with respect to sigma algebras. (Russian) **2001b:60002**

**Macci, Claudio** Some further results about undominated Bayesian experiments. (English summary) **2001i:60003**

**Schervish, Mark J.** *see* **Seidenfeld, Teddy et al., 2001b:60007**

**Seidenfeld, Teddy** (*with* Schervish, Mark J.; Kadane, Joseph B.) Non-conglomerability for finite-valued, finitely additive probability. (English summary) **2001b:60007**

**Štěpán, Josef** (*with* Hlubinka, Daniel) Two-dimensional probabilities with a given conditional structure. (English summary) **2001c:60005**

**Yan, Guo Jun** A note on the measurability of processes. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60A10

**Chen, Bing Wei** (*with* Zhuang, Xing Wu) Linear order for two families of locally comparable $\sigma$-fields. (Chinese. English and Chinese summaries)

**Fragoso, M. D.** *see* **Leão, D., Jr. et al., 2001e:28008**

**Giannopoulos, A. A.** (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**

**Kreps, V. L.** (*with* Vorob'ev, Nikolaĭ Nikolaevich) On probabilities of pure strategy $n$-tuples in non-cooperative games. **2001g:91013**

**Lambert, Alan** $L^\infty$ norm estimates for conditional expectations. (English summary) **2001d:47048**

**Leão, D., Jr.** (*with* Fragoso, M. D.; Ruffino, Paulo R. C.) Characterizations of Radon spaces. (English summary) **2001e:28008**

**Li, Gao Ming** *see* **Zhao, Hui**

**Macheras, N. D.** (*with* Musial, K.; Strauss, Werner) On products of admissible liftings and densities. (English summary) **2001g:28011**

**Milman, Vitali D.** *see* **Giannopoulos, A. A., 2001m:28001**

**Musial, K.** *see* **Macheras, N. D. et al., 2001g:28011**

**Rosenthal, Jeffrey S.** (*with* Schwartz, Peter O.) Gambling systems and multiplication-invariant measures. **2001d:28008**

**Ruffino, Paulo R. C.** *see* **Leão, D., Jr. et al., 2001e:28008**

**Schwartz, Peter O.** *see* **Rosenthal, Jeffrey S., 2001d:28008**

**Smolyanov, Oleg G.** *see* **von Weizsäcker, Heinrich et al., 2001k:58079**

**Stinchcombe, Maxwell B.** The gap between probability and prevalence: loneliness in vector spaces. (English summary) **2001e:28022**

**Strauss, Werner** *see* **Macheras, N. D. et al., 2001g:28011**

**Talagrand, Michel** Concentration and influences. (English summary) **2001c:28009**

**Vorob'ev, Nikolaĭ Nikolaevich** *see* **Kreps, V. L., 2001g:91013**

**von Weizsäcker, Heinrich** (*with* Smolyanov, Oleg G.; Wittich, Olaf) Diffusion on a compact Riemannian manifold, and surface measures. (Russian) **2001k:58079**

**Wittich, Olaf** *see* **von Weizsäcker, Heinrich et al., 2001k:58079**

**Zhao, Hui** (*with* Li, Gao Ming) Convergence theorems for set-valued conditional expectations. (Chinese. English and Chinese summaries)

**Zhuang, Xing Wu** *see* **Chen, Bing Wei**

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**Chen, Zhiqiang[1]** (*with* Rubin, Herman; Vitale, Richard A.) Addendum to: "Independence and determination of probabilities" [Proc. Amer. Math. Soc. **125** (1997), no. 12, 3721–3723; MR 98b:60007]. **2001m:60009**

**Cozman, Fabio Gagliardi** Computing posterior upper expectations. (English summary) (*see* **2001a:68006**)

**Del Moral, Pierre** (*with* Doisy, M.) Maslov idempotent probability calculus. II. (Russian summary) **2001g:60005**

**Doisy, M.** *see* **Del Moral, Pierre, 2001g:60005**

**Gil Álvarez, Pedro Ángel** *see* **Montes Rodríguez, Susana et al.**

**Jiménez Meana, Jorge** *see* **Montes Rodríguez, Susana et al.**

**Montes Rodríguez, Susana** (*with* Jiménez Meana, Jorge; Gil Álvarez, Pedro Ángel) Probability of an $\varepsilon$-complete system of events. (Spanish. English and Spanish summaries)

**Rubin, Herman** *see* **Chen, Zhiqiang[1] et al., 2001m:60009**

**Sonsino, Doron** A lemma on proximity of variances and expectations. (English summary)

**Vitale, Richard A.** *see* **Chen, Zhiqiang[1] et al., 2001m:60009**

**Xia, Zhongyong** Fuzzy probability system: fuzzy-probability space. I. (English summary)

**Xing, Li** An application of logical division methods to classical probability problems. (Chinese. English and Chinese summaries)

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**Abellan, Joaquin** (*with* Moral, Serafín) A non-specificity measure for convex sets of probability distributions. (English summary) **2001d:68209**

**Al'beverio, S.** (*with* Cianci, Roberto; De Grande-De Kimpe, N.; Khrennikov, Andrei) $p$-adic probability and an interpretation of negative probabilities in quantum mechanics. (English summary) **2001m:81004**

**Bruss, F. Thomas** (*with* Rüschendorf, Ludger) The switching problem and conditionally specified distribution. (English summary) **2001d:60001**

**Chow, Chi-Keung** (*with* Cohen, Thomas D.) Quantum coins, dice, and children: probability and quantum statistics. (English summary) **2001d:82007**

**Cianci, Roberto** *see* **Al'beverio, S. et al., 2001m:81004**

**Cohen, Thomas D.** *see* **Chow, Chi-Keung, 2001d:82007**

**de Cooman, Gert** (*with* Zhang, Guang Quan; Kerre, Etienne E.) Possibility measures and possibility integrals defined on a complete lattice. (English summary)

— *see also* **Janssen, Hugo L. et al.**

**De Grande-De Kimpe, N.** *see* **Al'beverio, S. et al., 2001m:81004**

**Fajardo, Sergio** Nonstandard analysis and a classification of probability spaces.

**Gudder, Stanley** Combinations of observables. (English summary) **2001h:81014**

**Höhle, Ulrich** (*with* Weber, Siegfried) On conditioning operators.

**Janssen, Hugo L.** (*with* de Cooman, Gert; Kerre, Etienne E.) Ample fields as a basis for possibilistic processes. (English summary)

**Kadane, Joseph B.** *see* **Schervish, Mark J. et al., 2001d:03061**

**Kerre, Etienne E.** *see* **Janssen, Hugo L. et al.** *and* **de Cooman, Gert et al.**

**Khrennikov, Andrei** *see* **Al'beverio, S. et al., 2001m:81004**

**Kramosil, Ivan** Towards generalized belief functions. (English summary) (*see* **2001a:28001**)

**Maher, Patrick** Probabilities for two properties. (English summary) **2001b:03025**

**Moral, Serafín** *see* **Abellan, Joaquin, 2001d:68209**

**Mumford, David** The dawning of the age of stochasticity. (English summary) **2001e:01004**

**Osswald, Horst** (*with* Sun, Yeneng) Measure and probability theory and applications. **2001i:28023**

**Paris, J. B.** (*with* Watton, P. N.; Wilmers, G. M.) On the structure of probability functions in the natural world. (English summary) **2001e:03051**

**Rüschendorf, Ludger** *see* **Bruss, F. Thomas, 2001d:60001**

**Schervish, Mark J.** (*with* Seidenfeld, Teddy; Kadane, Joseph B.) How sets of coherent probabilities may serve as models for degrees of incoherence. (English summary) **2001d:03061**

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**Streater, R. F.** Classical and quantum probability. (English summary) **2001j:81011**

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**Vallentyne, Peter** Standard decision theory corrected. (English summary) **2001e:91047**

**Voorbraak, Frans** Partial probability: theory and applications. (English summary) **2001g:68093**

**Watton, P. N.** *see* **Paris, J. B. et al., 2001e:03051**

**Weber, Siegfried** *see* **Höhle, Ulrich**

**Wilmers, G. M.** *see* **Paris, J. B. et al., 2001e:03051**

**Zhang, Guang Quan** *see* **de Cooman, Gert et al.**

# 60Bxx Probability theory on algebraic and topological structures

## 60B05 Probability measures on topological spaces

**Alvarez-Manilla, M.** (*with* Edalat, Abbas; Saheb, Nasser) An extension result for continuous valuations. (English summary) **2001a:60003**

**Buldygin, V. V.** (*with* Kharazishvili, A. B.) ★ Geometric aspects of probability theory and mathematical statistics. (English summary) **2001i:60004**

**Edalat, Abbas** *see* **Alvarez-Manilla, M. et al., 2001a:60003**

**Es-Sahib, Aziz** (*with* Heinich, Henri) Barycentre canonique pour un espace métrique à courbure négative. (English and French summaries) [Canonical barycenter for a negatively curved metric space] **2001c:60006**

**Heinich, Henri** *see* **Es-Sahib, Aziz, 2001c:60006**

**Kharazishvili, A. B.** *see* **Buldygin, V. V., 2001i:60004**

**Ruzankin, P. S.** Solution of the Monge-Kantorovich problem for a class of functionals. (Russian) **2001h:60002**

**Saheb, Nasser** *see* **Alvarez-Manilla, M. et al., 2001a:60003**

**Tahata, Rataka** Weak convergence of compound probability measures on Hausdorff spaces. (English summary) **2001h:60003**

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**Dinculeanu, Nicolae** ★ Vector integration and stochastic integration in Banach spaces. (English summary) **2001h:60096**

**Giannopoulos, A. A.** (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**

**Hambly, Ben M.** (*with* Kumagai, Takashi; Kusuoka, Shigeo; Zhou, Xian Yin) Transition density estimates for diffusion processes on homogeneous random Sierpinski carpets. (English summary) **2001e:60158**

**Howroyd, J. D.** A domain-theoretic approach to integration in Hausdorff spaces. (English summary) **2001m:28006**

**Kawabe, Jun** Weak convergence of compound probability measures on uniform spaces. (English summary) **2001b:60010**

**Kumagai, Takashi** *see* **Hambly, Ben M. et al., 2001e:60158**

**Kusuoka, Shigeo** *see* **Hambly, Ben M. et al., 2001e:60158**

**Milman, Vitali D.** *see* **Giannopoulos, A. A., 2001m:28001**

**Smolyanov, Oleg G.** *see* **von Weizsäcker, Heinrich, 2001d:46065**

**Stinchcombe, Maxwell B.** The gap between probability and prevalence: loneliness in vector spaces. (English summary) **2001e:28022**

**Sudakov, A. V.** A counterexample to the conjecture of the monotonicity of an integral with respect to the Gaussian measure. (Russian. English and Russian summaries) **2001g:60028**

— (*with* Sudakov, V. N.) Empirical distributions and dimension-invariant estimates for spread in the problem of typical distributions. (Russian. English and Russian summaries) **2001g:60029**

**Sudakov, V. N.** *see* **Sudakov, A. V., 2001g:60029**

**von Weizsäcker, Heinrich** (*with* Smolyanov, Oleg G.) Relations between smooth measures and their logarithmic gradients and derivatives. (Russian) **2001d:46065**

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## 60B10 Convergence of probability measures

**Baushev, A. N.** On the weak convergence of probability measures in Lebesgue spaces. (English summary)
— On the weak convergence of probability measures in a Banach space. (Russian. English and Russian summaries) **2001e:60007**
**Belili, Nacereddine** (*with* Heinich, Henri) Distances de Wasserstein et de Zolotarev. (English and French summaries) [Wasserstein and Zolotarev distances] **2001b:60008**
**Bening, V. E.** (*with* Korolev, V. Yu.) Limit behavior of nonrandomly centered generalized Cox processes. (Russian. English and Russian summaries)
**Bennett, Bruce M.** (*with* Cohen, Rachel B.) $L^\infty$ metric criteria for convergence in Bayesian recursive inference systems. (English summary) **2001g:60006**
**Bradley, Richard C.** On tightness of partial sums from strictly stationary, absolutely regular sequences of $B$-valued random variables. (English summary) **2001b:60009**
**Cohen, Rachel B.** *see* **Bennett, Bruce M., 2001g:60006**
**Dani, S. G.** (*with* Shah, Riddhi) Contractible measures and Levy's measures on Lie groups. **2001j:60008**
**Delbaen, Freddy** An addendum to: "A remark on Slutsky's theorem" [in *Séminaire de Probabilités, XXXII*, Lecture Notes in Math., 1686, Springer, Berlin, 1998; MR 99k:60007]. (*see* **2001b:60004**)
**Heinich, Henri** *see* **Belili, Nacereddine, 2001b:60008**
**Heyer, Herbert** (*with* Pap, Gyula) Convergence of convolution hemigroups on a Moore group. **2001d:60005**
**Jajte, Ryszard** (*with* Paszkiewicz, Adam) Conditioning and weak convergence. (English summary) **2001d:60006**
**Kawabe, Jun** Weak convergence of compound probability measures on uniform spaces. (English summary) **2001b:60010**
**Korolev, V. Yu.** *see* **Bening, V. E.**
**Kruk, Łukasz** (*with* Zięba, Wiesław) On tightness of randomly indexed sequences of random variables. (English summary)
**Neuenschwander, Daniel** The class $I_0$ for random increasing upper semicontinuous functions. (Russian summary) **2001e:60008**
**Pap, Gyula** *see* **Heyer, Herbert, 2001d:60005**
**Paszkiewicz, Adam** *see* **Jajte, Ryszard, 2001d:60006**
**Shah, Riddhi** *see* **Dani, S. G., 2001j:60008**
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**Anastassiou, George A.** (*with* Rychlik, Tomasz) Prokhorov radius of a neighborhood of zero described by three moment constraints. (English summary) **2001b:60022**
**Banaszczyk, W.** The Lévy continuity theorem for nuclear groups. (English summary) **2001c:43001**
**Banys, Rimas** (*with* Surgailis, Donatas) On the weak convergence of random fields. (Russian. Russian and Lithuanian summaries) **2001g:60071**
**van den Berg, Eric** *see* **Resnick, Sidney I., 2001i:90018**
**Bingham, Michael S.** Approximate martingale central limit theorems on Hilbert space. (English and French summaries) **2001i:60005**
**Bose, Amit** (*with* Sundar, P.) Weak convergence of interacting SDEs to the superprocess. (English summary) **2001g:60153**
**Dall'Aglio, Marco** (*with* Rachev, Svetlozar T.) Metrization of epi-convergence: an application to the strong consistency of $M$-estimators. (English summary) **2001m:28021**
**Hazod, Wilfried** (*with* Scheffler, Hans-Peter) Strongly $\tau$-decomposable and selfdecomposable laws on simply connected nilpotent Lie groups. (English summary) **2001h:60009**
**Jiang, Tiefeng** (*with* O'Brien, George L.) The metric of large deviation convergence. (English summary) **2001i:60046**
**Lasserre, Jean Bernard** Quasi-Feller Markov chains. (English summary) **2001d:60074**
**Liu, Jin 'E** *see* **Zhang, Hui, 2001c:60011**
**Merkle, Milan** Topics in weak convergence of probability measures. **2001h:28006**
**Neuenschwander, Daniel** $s$-stable semigroups on simply connected step 2-nilpotent Lie groups. (English summary) **2001i:43001**
**O'Brien, George L.** *see* **Jiang, Tiefeng, 2001i:60046**
**Pap, Gyula** (*with* Voit, Michael) Rates of convergence for central limit theorems for random walks related with the Hankel transform. **2001g:43008**
**Politis, Dimitris N.** (*with* Romano, Joseph P.; Wolf, Michael[3]) Weak convergence of dependent empirical measures with application to subsampling in function spaces. (English summary) **2001a:62054**
**Pratelli, Maurizio** An alternative proof of a theorem of Aldous concerning convergence in distribution for martingales. (*see* **2001b:60004**)
**Rachev, Svetlozar T.** *see* **Dall'Aglio, Marco, 2001m:28021**
**Remiche, Marie-Ange** Asymptotic independence of counts in isotropic planar point processes of phase-type. (English summary) **2001e:60096**
**Resnick, Sidney I.** (*with* van den Berg, Eric) Weak convergence of high-speed network traffic models. (English summary) **2001i:90018**
**Romano, Joseph P.** *see* **Politis, Dimitris N. et al., 2001a:62054**
**Rychlik, Tomasz** *see* **Anastassiou, George A., 2001b:60022**
**Scheffler, Hans-Peter** *see* **Hazod, Wilfried, 2001h:60009**
**Sundar, P.** *see* **Bose, Amit, 2001g:60153**
**Surgailis, Donatas** *see* **Banys, Rimas, 2001g:60071**
**Tahata, Rataka** Weak convergence of compound probability measures on Hausdorff spaces. (English summary) **2001h:60003**
**Trefethen, L. M.** *see* **Trefethen, Lloyd N., 2001k:60009**
**Trefethen, Lloyd N.** (*with* Trefethen, L. M.) How many shuffles to randomize a deck of cards? (English summary) **2001k:60009**
**Voit, Michael** *see* **Pap, Gyula, 2001g:43008**
**Wolf, Michael[3]** *see* **Politis, Dimitris N. et al., 2001a:62054**
**Zhang, Bo[5]** Stable convergence of random sequences with random indices. (English summary) **2001i:60044**
**Zhang, Hui** (*with* Liu, Jin 'E) Weak convergence of convolution power sequences of probability measures on locally compact $H$-semigroups. (Chinese. English and Chinese summaries) **2001c:60011**

## 60B11 Probability theory on linear topological spaces [see also 28C20]

**Borzov, V. V.** On the limit distribution of a homogeneous polynomial on the unit sphere of large dimension. **2001g:60007**
**Buldygin, V. V.** (*with* Severnyuk, D. M.) On the exponential integrability of semi-additive functionals of Gaussian vectors. (Ukrainian. Ukrainian summary)
**Geiss, Stefan** A general contraction principle for vector-valued martingales. (English summary) **2001g:60008**
**Kvaratskheliya, V. V.** The analogue of the coefficient of correlation in Banach spaces. (English summary)
**Mamporiya, B. I.** On the Ito formula in a Banach space. (English summary) **2001d:60007**
**Scarlatti, Sergio** On some new type of infinite-dimensional Laplacians. (English summary) **2001e:60009**
**Severnyuk, D. M.** *see* **Buldygin, V. V.**

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**Bobkov, Sergei G.** Isoperimetric and analytic inequalities for log-concave probability measures. (English summary) **2001h:60026**
**Chen, Xia** Some dichotomy results for functionals of Harris recurrent Markov chains. (English summary) **2001i:60109**
**Dinh Quang Lu'u** On convergence in probability of martingale-like sequences. (English summary) **2001g:60103**
**Giorgobiani, G. J.** Convergent rearrangements of series of vector-valued functions. (English summary) **2001g:40004**
**Jakubowski, Jacek** Existence of strong solutions to stochastic differential equations in conuclear spaces. (English summary) **2001d:60057**
**Kallianpur, Gopinath** (*with* Sundar, P.) Hilbert-space-valued super-Brownian motion and related evolution equations. (English summary) **2001b:60079**
**Koshkin, S. V.** A limit theorem that relates Lévy means with integrals with respect to measures of white noise. (Ukrainian. English summary)
**Liang, Han Ying** (*with* Su, Chun) Strong laws for weighted sums of random elements. (English summary) **2001k:60044**
**Litvak, A. E.** Kahane-Khinchin's inequality for quasi-norms. (English summary) **2001f:46013**
**Liu, Pei-de** (*with* Saksman, Eero; Tylli, Hans-Olav) Boundedness of the $q$-mean-square operator on vector-valued analytic martingales. (English summary) **2001a:60052**
**Nguyen Duy Tien** (*with* Ricardo, Vidal Vazquez) On comparison theorems for random series in Banach spaces. (English summary) **2001a:60053**
**Ricardo, Vidal Vazquez** *see* **Nguyen Duy Tien, 2001a:60053**
**Saksman, Eero** *see* **Liu, Pei-de et al., 2001a:60052**
**Stoica, Gheorghe** Weak laws of large numbers in some non-commutative spaces. (English summary) **2001f:46103**
**Su, Chun** *see* **Liang, Han Ying, 2001k:60044**
**Sundar, P.** *see* **Kallianpur, Gopinath, 2001b:60079**
**Tylli, Hans-Olav** *see* **Liu, Pei-de et al., 2001a:60052**
**Voigt, Jürgen** A concentration of mass property for isotropic convex bodies in high dimensions. (English summary) **2001i:52013**

## 60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

**Bingham, Michael S.** Approximate martingale central limit theorems on Hilbert space. (English and French summaries) **2001i:60005**
**Castaing, Charles** (*with* Raynaud de Fitte, Paul) $\mathfrak{S}$-uniform scalar integrability and strong laws of large numbers for Pettis integrable functions with values in a separable locally convex space. (English summary) **2001b:60011**
**Chebotarev, V. I.** *see* **Nagaev, S. V., 2001d:60010**
**Chen, Ping Yan** (*with* Gan, Shi Xin) Some limit results for the weighted sum of $B$-valued random variables. (Chinese. English and Chinese summaries)
**Chobanyan, Sergei** (*with* Mandrekar, V.) On Kolmogorov SLLN under rearrangements for "orthogonal" random variables in a $B$-space. (English summary) **2001a:60004**
**Davydov, Yu. A.** (*with* Paulauskas, Vygantas; Račkauskas, Alfredas) More on $p$-stable convex sets in Banach spaces. (English summary) **2001g:60009**
**Ezzaki, Fatima** SLLN for adapted sequences. (English summary) **2001i:60006**
**Gan, Shi Xin** A.s. convergence of two-parameter Banach space valued martingales and the Radon-Nikodym property of Banach spaces. (English summary) **2001g:60010**
— (*with* Zhang, Feng[2]; Ye, Chen) The convergence and the law of large numbers for weighted sums of martingale difference series in Banach spaces. (Chinese. English and Chinese summaries)
— *see also* **Chen, Ping Yan**
**Ganiev, I. G.** Convergence of martingales in the Banach-Kantorovich lattice $L_p(\hat{\nabla}, \hat{\mu})$. (Russian. English and Uzbek summaries) **2001k:60002**
**Hess, Christian** The distribution of unbounded random sets and the multivalued strong law of large numbers in nonreflexive Banach spaces. (English summary) **2001c:60007**
**Hu, Tai Zhong** *see* **Liang, Han Ying et al., 2001g:60011**
**Huang, Ke Ming[1]** *see* **Liao, Jing Yu**
**Jurek, Zbigniew J.** Three algebraic problems in probability theory. (English summary) (*see* **2001d:60004**)
**Kikuchi, Masato** A note on the convergence of martingales in Banach function spaces. (English and Russian summaries) **2001e:60010**
— Convergence of weighted averages of martingales in Banach function spaces. (English summary) **2001e:60011**
**Kuczmaszewska, Anna** (*with* Szynal, Dominik) On conditions for the strong law of large numbers in general Banach spaces. (English summary) **2001m:60010**
**Kuelbs, James** Large deviation probabilities and dominating points for open convex sets: nonlogarithmic behavior. (English summary) **2001k:60003**
**Kvaratskheliya, V. V.** Unconditional convergence of Gaussian random series in Banach spaces. (Russian. Russian summary) **2001m:60011**
**Lember, Jüri** ★ Consistency of empirical $k$-centres. (Estonian summary) **2001d:60008**

**Liang, Han Ying** Complete convergence for a class of mixing sequences. (English summary) **2001e:60012**
— (*with* Su, Chun; Hu, Tai Zhong) General forms on convergence rates for the law of the iterated logarithm of $B$-valued independent random elements. (Chinese. English and Chinese summaries) **2001g:60011**
— Equivalence of complete convergence and law of large numbers for $B$-valued random elements. (English summary) **2001f:60006**
— Some discussion on the conditions of complete convergence for sums of $B$-valued random elements. (English summary) **2001d:60009**
**Liao, Jing Yu** (*with* Huang, Ke Ming[1]) Some strong convergence for the sums of independent random variables in Hilbert spaces. (Chinese. English and Chinese summaries)
**Liu, Jing Jun** Functional Erdős-Rényi laws of large numbers for $\varphi$-mixing random variables. (Chinese. Chinese summary) **2001c:60008**
**Mandrekar, V.** *see* **Chobanyan, Sergei, 2001a:60004**
**Massart, Pascal** Some applications of concentration inequalities to statistics. (English and French summaries) **2001m:60012**
**Matsak, Ĭ. K.** The law of the iterated logarithm for extremal random elements in Banach lattices. (Ukrainian. Ukrainian summary)
— Mean $\psi$-deviation of a random element in a Banach lattice and some of its applications. (Ukrainian. Ukrainian summary)
**Nagaev, S. V.** (*with* Chebotarev, V. I.) On the accuracy of Gaussian approximation in Hilbert space. (English summary) **2001d:60010**
**Ostrovskiĭ, E. I.** Central limit theorem in the space of continuous functions in the case of convergence to a stable distribution. (English summary) **2001m:60013**
**Parpieva, N. T.** (*with* Sharipov, O. Sh.) The central limit theorem for stationary random fields with values in some Banach spaces. (Russian. English and Uzbek summaries) **200!j:60009**
**Paulauskas, Vygantas** *see* **Davydov, Yu. A. et al., 2001g:60009**
**Potocký, Rastislav** (*with* Urbaníková, Marta) Strong laws of large numbers for double sequences of random elements. (English summary) **2001k:60004**
**Qiu, Yu Feng** A note of strong law of large numbers for $B$-valued uniform amarts. (Chinese. English and Chinese summaries)
**Račkauskas, Alfredas** *see* **Davydov, Yu. A. et al., 2001g:60009**
**Raynaud de Fitte, Paul** *see* **Castaing, Charles, 2001b:60011**
**Sazonov, Vyacheslav Vasil'evich** A simplified solution of the central limit problem in Hilbert space. (English and Tamil summaries) **2001f:60007**
**Sharipov, O. Sh.** The central limit theorem for $l_p$-valued random fields with mixing. (Russian. English and Uzbek summaries) **2001j:60010**
— *see also* **Parpieva, N. T., 2001j:60009**
**Su, Chun** *see* **Liang, Han Ying et al., 2001g:60011**
**Szynal, Dominik** *see* **Kuczmaszewska, Anna, 2001m:60010**
**Urbaníková, Marta** *see* **Potocký, Rastislav, 2001k:60004**
**Wan, Cheng Gao** Laws of large numbers for martingale-difference-like arrays in Banach spaces. (Chinese. English and Chinese summaries)
— Convergence rate for $B$-valued random fields. (Chinese. English and Chinese summaries)
**Wang, Ding Cheng** Moment complete convergence for $B$-valued martingale random variables. (Chinese. English and Chinese summaries)
**Wittje, Berthold** Spitzer's strong law of large numbers in nonseparable Banach spaces. (English summary) **2001b:60012**
**Ye, Chen** *see* **Gan, Shi Xin et al.**
**Zhang, Feng[2]** *see* **Gan, Shi Xin et al.**
**Zhang, Li Xin** Further moment inequalities for $B$-valued strongly mixing random fields and strong laws of large numbers. (Chinese. English and Chinese summaries) **2001m:60014**

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**Antonova, O. V.** (*with* Bronnikova, S. A.; Davydova, V. V.; Ordóñez Cabrera, Manuel H.) On the weak law of large numbers in Banach spaces of martingale type $p$ under a general condition of Cesàro type. (Russian) **2001i:60030**
**Bosq, D.** ★ Linear processes in function spaces. (English summary) **2001k:60054**
**Bronnikova, S. A.** *see* **Antonova, O. V. et al., 2001i:60030**
**Buldygin, V. V.** (*with* Solntsev, S. A.) On weak and strong convergence almost surely of series of independent random elements in Banach spaces. (Russian. Russian summary)
**Castaing, Charles** (*with* Saadoune, Mohammed) Dunford-Pettis-types theorem and convergences in set-valued integration. (English summary) **2001g:28005b**
— (*with* Saadoune, Mohammed) Dunford-Pettis-types theorem and convergences in set-valued integration. (English summary) **2001g:28005a**
**Davydova, V. V.** *see* **Antonova, O. V. et al., 2001i:60030**
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**Pérez-Abreu, Víctor** (*with* Tudor, Constantin) Large deviations for dissipative diffusion equations in conuclear spaces. (English summary) **2001g:60149**
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**Tsai, Tsung-Hsi** Empirical law of the iterated logarithm for Markov chains with a countable state space. (English summary) **2001i:60056**
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## 60B15 Probability measures on groups, Fourier transforms, factorization

**Al'beverio, S.** (*with* Zhao, Xue Lei) On the relation between different constructions of random walks on $p$-adics. (English summary) **2001i:60007**
**Applebaum, David** Compound Poisson processes and Lévy processes in groups and symmetric spaces. (English summary) **2001h:60004**
**Baldi, Paolo** (*with* Caramellino, Lucia) Large and moderate deviations for random walks on nilpotent groups. (English summary) **2001b:60013**
— (*with* Casadio Tarabusi, Enrico; Figà-Talamanca, Alessandro) Stable laws arising from hitting distributions of processes on homogeneous trees and the hyperbolic half-plane. (English summary) **2001m:60015**
**Benjamini, Itai** (*with* Kalai, Gil; Schramm, Oded) Noise sensitivity of Boolean functions and applications to percolation. (English summary) **2001m:60016**
**Bingham, Michael S.** A central limit theorem for exchangeable random variables on a locally compact abelian group. (English summary) **2001b:60014**
— (*with* Heyer, Herbert) On diffusion hemigroups of probability measures on an abelian locally compact group. (English summary) **2001g:60012**
**Brofferio, Sara** (*with* Woess, Wolfgang) On transience of card shuffling. (English summary) **2001h:60005**
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**Fel'dman, G. M.** (*with* Graczyk, Piotr) On the Skitovich-Darmois theorem for compact abelian groups. (English summary) **2001i:60008**
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**Gordina, Maria** Holomorphic functions and the heat kernel measure on an infinite-dimensional complex orthogonal group. (English summary) **2001h:60006**
**Graczyk, Piotr** (*with* Loeb, Jean-Jacques) A Bernstein property of measures on groups and symmetric spaces. (English summary) **2001h:60007**
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**Hazod, Wilfried** On some convolution semi- and hemigroups appearing as limit distributions of normalized products of group-valued random variables. **2001h:60008**
— (*with* Scheffler, Hans-Peter) Strongly $\tau$-decomposable and selfdecomposable laws on simply connected nilpotent Lie groups. (English summary) **2001h:60009**
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**McCrudden, M.** (*with* Walker, Seth) Embedding infinitely divisible probabilities on subsemigroups of Lie groups. (English summary) **2001k:60005**
**Mili, Maher** Selective limit theorems for random walks on parabolic biangle and triangle hypergroups. (English summary) **2001j:60011**

**Mukherjea, Arunava** ★ Topics in products of random matrices. (English summary) **2001j:60012**
**Neuenschwander, Daniel** On the uniqueness problem for continuous convolution semigroups of probability measures on simply connected nilpotent Lie groups. (English summary) **2001e:60014**
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— (*with* Schott, René) The class $I_0$ on abstract structures. (English summary) **2001h:60010**
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**Pak, Igor** Two random walks on upper triangular matrices. (English summary) **2001m:60018**
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**Porod, Ursula** (*with* Zelditch, Steve) Semi-classical limit of random walks. II. (English summary) **2001a:60008**
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**Su, Francis Edward** Discrepancy convergence for the drunkard's walk on the sphere. (English summary) **2001m:60020**
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**Woess, Wolfgang** ★ Random walks on infinite graphs and groups. (English summary) **2001k:60006**
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**Yasuda, Kumi** On infinitely divisible distributions on locally compact abelian groups. (English summary) **2001h:60011**
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**Al'beverio, S.** (*with* Zhao, Xue Lei) A decomposition theorem for Lévy processes on local fields. (English summary) **2001m:60107**
**Ambroladze, Amiran** (*with* Wallin, Hans) Random iteration of Möbius transformations and Furstenberg's theorem. (English summary) **2001h:37112**
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**Brown, Kenneth S.** Semigroups, rings, and Markov chains. (English summary) **2001e:60141**
**Dani, S. G.** (*with* Shah, Riddhi) Contractible measures and Levy's measures on Lie groups. **2001j:60008**
**D'Aristotile, Anthony** An invariance principle for triangular arrays. (English summary) **2001i:60060**
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**Diaconis, Persi** (*with* Ram, Arun) Analysis of systematic scan Metropolis algorithms using Iwahori-Hecke algebra techniques. **2001j:60132**
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**He, Yuan Jiang** *see* **Song, Shao Qiang**
**Heyer, Herbert** (*with* Pap, Gyula) Convergence of convolution hemigroups on a Moore group. **2001d:60005**
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**Kokhas', K.** (*with* Suvorov, A.) Spectral estimates for the Laplace operator of the discrete Heisenberg group. (Russian. English and Russian summaries) **2001a:22010**
**Korovin, D. I.** A proof of the correct passage to infinity of the product of independent random matrices. (Russian. Russian summary) **2001g:60050**
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**Lee, Tzong-Yow** (*with* Yau, Horng-Tzer) Logarithmic Sobolev inequality for some models of random walks. (English summary) **2001b:60090**
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**Raja, C. Robinson Edward** Weak mixing and unitary representation problem. (English summary) **2001j:43001**
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**Smirnova, M. G.** Representation of the Green function of the heat equation on a compact Lie group. (Russian. Russian summary) **2001m:43019**
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**Trimèche, Khalifa** Convolution semigroups and Calderón's formula for compact $K$-variable continuous polynomial hypergroups. (English summary) **2001m:43017**
**Tsay, Jhishen** Lyapunov exponent for the random Schrödinger equation. (English summary) **2001m:60083**
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**Żuk, Andrzej** A generalized Følner condition and the norms of random walk operators on groups. (English summary) **2001m:43003**

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**Barndorff-Nielsen, Ole E.** (*with* Rydberg, Tina Hviid) Exact distributional results for random resistance trees. (English summary) **2001j:60015**
**Evans, Steven N.** Random spanning trees of Cayley graphs and an associated compactification of semigroups. (English summary) **2001h:60012**
**Khrennikov, Andrei** Laws of large numbers in non-Archimedean probability theory. (Russian. Russian summary) **2001g:60014**
**Kochubeĭ, A. N.** Analysis and probability over infinite extensions of a local field. (English summary) **2001e:60016**
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**Moklyachuk, M. P.** Interpolation of vector-valued stochastic processes. (English summary) **2001d:60011**
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**Buchholz, Artur** Operator Khintchine inequality in non-commutative probability. (English summary) **2001m:46142**
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**Schott, René** *see* **Dobrev, V. K. et al., (2001e:81005)**
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**Vasil'chuk, V.** On the law of multiplication of unitary random matrices. (Russian. English, Russian and Ukrainian summaries) **2001j:15014**
**Yasuda, Kumi** Extension of measures to infinite-dimensional spaces over $p$-adic field. **2001m:28027**
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## 60C05 Combinatorial probability

**Abdel-Ghaffar, Khaled A. S.** The determinant of random power series matrices over finite fields. (English summary)
**Aki, Sigeo** *see* **Han, Sung-il**

**Alexeyeff, N. P.** Generating functions for generalized binomial distributions. (English summary)
**Arratia, Richard** (*with* Barbour, Andrew D.; Tavaré, Simon) The number of components in a logarithmic combinatorial structure. (English summary) **2001h:60013**
**Arroyo-Pardo, E.** *see* **Sánchez García, Miguel et al.**
**Babu, G. Jogesh** (*with* Manstavičius, Eugenijus) Brownian motion for random permutations. (English summary) **2001j:60016**
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**Bontaş, Silvia** (*with* Zbăganu, Gheorghiţă) On the coupon collector problem in uncountable settings. (English summary) **2001m:60021**
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**Buravlev, S. M.** Repetitions up to permutations that generate a Latin rectangle. (Russian. Russian summary) **2001g:60015**
**Chung, Kai Lai** On the return to equilibrium. (Italian. English and Italian summaries) **2001c:60013**
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**Cramer, Erhard** Asymptotic estimators of the sample size in a record model. (English summary) **2001b:60016**
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**Han, Qing[3]** The exact distribution theory of runs. (Chinese. English and Chinese summaries)
**Han, Sung-il** (*with* Aki, Sigeo) A unified approach to binomial-type distributions of order $k$. (English summary)
**Hwang, Frank K.** (*with* Liu, Y. C.) The expected numbers of unresolved positive clones for various random pool designs. (English summary)
**Itoh, Yoshiaki** (*with* Maehara, Hiroshi; Tokushige, Norihide) Oriented graphs generated by random points on a circle. (English summary) **2001e:60017**
**Knopfmacher, Arnold** (*with* Prodinger, Helmut) Combinatorics of geometrically distributed random variables: value and position of the $r$th left-to-right maximum. (English summary) **2001j:60017**
**Kolchin, V. F.** ★ Random graphs. (English summary) **2001h:60015**
**Kotz, Samuel** (*with* Mahmoud, Hosam; Robert, Philippe) On generalized Pólya urn models. (English summary) **2001f:60010**
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**Liu, Y. C.** *see* **Hwang, Frank K.**
**Maehara, Hiroshi** *see* **Itoh, Yoshiaki et al., 2001e:60017**
**Mahmoud, Hosam** *see* **Kotz, Samuel et al., 2001f:60010**
**Manstavičius, Eugenijus** Stochastic processes with independent increments for random mappings. (Russian. Russian and Lithuanian summaries) **2001k:60007**
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**Mason, David M.** (*with* Turova, Tatyana S.) Motoo's combinatorial central limit theorem for serial rank statistics. (English summary) **2001m:60022**
**Mikhailov, V. G.** Limit theorems for the number of nonzero solutions of a system of random equations over the field GF(2). (Russian. Russian summary) **2001g:60016**
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**Montes, Francisco** *see* **Corberán, A.**
**Mudivarthy, Surekha** (*with* Rao, M. Bhaskara) Some gambling strategies: an evaluation. (English summary)
**Muselli, Marco** New improved bounds for reliability of consecutive-$k$-out-of-$n$:$F$ systems. (English summary) **2001k:60008**
**Myullyari, T. B.** (*with* Pavlov, Yu. L.) The number of leaves in a random forest. (Russian. English and Russian summaries) (*see* **2001e:00010**)
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**Pekoz, Erol** (*with* Ross, Sheldon M.) Mean cover times for coupon collectors and star graphs. **2001i:60013**
**Pitman, James W.** Coalescents with multiple collisions. (English summary) **2001h:60016**
**Pittel, Boris** Normal convergence problem? Two moments and a recurrence may be the clues. (English summary) **2001a:60009**
**Prodinger, Helmut** *see* **Knopfmacher, Arnold, 2001j:60017**
**Rao, M. Bhaskara** *see* **Mudivarthy, Surekha**
**Reimer, David** Proof of the van den Berg-Kesten conjecture. (English summary) **2001g:60017**
**Robert, Philippe** *see* **Kotz, Samuel et al., 2001f:60010**
**Ross, Sheldon M.** *see* **Pekoz, Erol, 2001i:60013**
**Rota, Gian-Carlo** *see* **Bruno, William J. et al., 2001i:60011**
**Ruiz de la Cuesta, J. M.** *see* **Sánchez García, Miguel et al.**
**Sánchez García, Miguel** (*with* Ruiz de la Cuesta, J. M.; Bandrés, F.; Arroyo-Pardo, E.) Calculating probability in cases of multiple aggression. (Spanish. English and Spanish summaries)
**Savel'ev, L. Ya.** Random correspondences, binary matrices, and series. (Russian. Russian summary) **2001f:60011**
**Shapiro, Louis W.** (*with* Woan, Wen-Jin) Some generating function proofs of old and new results in probability. (*see* **2001i:05003**)
**Stark, Dudley** Total variation asymptotics for refined Poisson process approximations of random logarithmic assemblies. (English summary) **2001e:60018**
**Stefanov, Valeri T.** On the occurrence of composite events and clusters of points. (English summary) **2001g:60018**
**Tavaré, Simon** *see* **Arratia, Richard et al., 2001h:60013**
**Timashev, A. N.** On asymptotic expansions in local limit theorems in equiprobable schemes for allocating particles to different cells. (Russian. Russian summary) **2001g:60019**
**Tokushige, Norihide** *see* **Itoh, Yoshiaki et al., 2001e:60017**
**Torney, David C.** *see* **Bruno, William J. et al., 2001i:60011**
**Trefethen, L. M.** *see* **Trefethen, Lloyd N., 2001k:60009**
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**Turova, Tatyana S.** *see* **Mason, David M., 2001m:60022**
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**Abbott, Derek** *see* **Harmer, Gregory P. et al., 2001k:91029**
**Ageel, Mohammad I.** *see* **Khidr, Aboulhassan M.**
**Aki, Sigeo** *see* **Han, Qing[3], 2001i:60018**
**Alajaji, Fady** *see* **Kuai, Hongyan et al., 2001a:60022**
**Alekseĭchuk, A. N.** Conditions for the uniqueness of the moment problem in the class of $q$-distributions. (Russian. Russian summary) **2001b:05020**
**Alon, Noga** (*with* Körner, János; Monti, Angelo) String quartets in binary. (English summary) **2001m:05251**
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## 60Exx Distribution theory [see also 62Exx, 62Hxx]

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**Ushakov, Vladimir N.** *see* **Ushakova, A. P., 2001c:60023**
**Ushakova, A. P.** (*with* Ushakov, Vladimir Georgievich) On the stability of characterization by the distribution of any order statistic. (English summary) (*see* **2001a:00042**)
— (*with* Ushakov, Vladimir N.) An estimate of stability of the reconstruction of the normal multiplicative type. (English summary) **2001c:60023**
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**Vanderbei, Robert J.** *see* **Kagan, Abram et al., 2001c:60020**
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**Wechsler, S.** *see* **Esteves, L. G. et al.**
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**Winkler, Gerhard** Moment sets of bell-shaped distributions: extreme points, extremal decomposition and Chebysheff inequalities. (English summary) **2001d:60013**
**Wu, Funeng** (*with* Dharmadhikari, Sudhakar) Convolutions of $\alpha$-unimodal discrete distributions. (English summary) **2001c:60024**
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**Yanushkevichius, Romanas** On the stability of some analytic results arising in the characterization of distributions. (English summary) **2001c:60025**
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**Yılmaz, M.** *see* **Tuncer, Yalçın et al.**
**Zbăganu, Gheorghiță** On the lattice of waiting times. **2001k:60017**
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**Altmann, Gabriel** *see* **Wimmer, Gejza**
**Arnold, Barry C.** (*with* Castillo, Enrique; Sarabia, José Maria; González-Vega, Laureano) Multiple modes in densities with normal conditionals. (English summary) **2001i:62063**
**Asadi, Majid** (*with* Rao, Calyampudi Radhakrishna; Shanbhag, D. N.) Some unified characterization results on generalized Pareto distributions. (English summary) **2001m:62016**
**Astashkin, S. V.** Systems of random variables equivalent in distribution to the Rademacher systems, and the $\mathcal{K}$-closed representability of Banach pairs. (Russian. Russian summary) **2001g:60034**
**Baek, Jong-Il** (*with* Kim, Tae-Sung; Lim, Jae-Hak) On the dependence structure of stochastic processes and corresponding hitting times. (English summary) **2001j:60082**
**Belili, Nacereddine** Dualité du problème des marges et ses applications. (English and French summaries) [Duality of the marginal problem and applications] **2001c:60004**
— (*with* Heinich, Henri) Distances de Wasserstein et de Zolotarev. (English and French summaries) [Wasserstein and Zolotarev distances] **2001b:60008**
**Bertsimas, Dimitris** (*with* Sethuraman, Jay) Moment problems and semidefinite optimization. (*see* **2001k:90001**)
**Bischoff, Wolfgang** (*with* Fichter, M.) Optimal lower and upper bounds for the $L_p$-mean deviation of functions of a random variable. (English summary) **2001k:60022**
**Blackwell, David** The square-root game. (English summary) (*see* **2001m:60002**)

**Buldygin, V. V.** (*with* Kozachenko, Yu. V.) ★ Metric characterization of random variables and random processes. (English summary) **2001g:60089**
**Castillo, Enrique** *see* **Arnold, Barry C. et al., 2001i:62063**
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**Christoph, Gerd** *see* **Prokhorov, Yurii Vasil'evich et al., 2001k:62020**
**Dinh, Khoan T.** *see* **Nguyen, Truc T., 2001c:62013**
**Dukhovny, Alexander** Maximum-entropy distributions of nonnegative random variables with conditional-additive structure. (English summary) **2001i:60154**
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**Erdoğan, M. Burak** Analytic and asymptotic properties of non-symmetric Linnik's probability densities. (English summary) **2001g:60032**
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**Hlubinka, Daniel** *see* **Štěpán, Josef, 2001c:60005**
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**Huang, Wen-Jang** (*with* Su, Jyh-Cherng) On certain problems involving order statistics—a unified approach through order statistics property of point processes. (English summary) **2001i:60090**
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**Jacod, Jean** (*with* Protter, Philip) ★ Probability essentials. (English summary) **2001b:60001**
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**Karlin, Samuel** (*with* Chen, Chingfer) $r$-scan statistics of a marker array in multiple sequences derived from a common progenitor. (English summary) **2001k:92033**
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**Knopov, Pavel S.** *see* **Golodnikov, A. N. et al.**
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**Letac, Gérard** (*with* Massam, Hélène) Representations of the Wishart distributions. (English summary) **2001i:62067**
**Lim, Jae-Hak** *see* **Baek, Jong-Il et al., 2001j:60082**
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**Lin, Xiaoai** On the independence of correspondences. (English summary) **2001h:28014**
**Liu, Quansheng** Sur certaines lois invariantes par moyenne pondérée aléatoire. (English and French summaries) [Distributions that are invariant under random weighted mean] **2001c:60138**
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**Murat, Małgorzata** (*with* Szynal, Dominik) On computational formulas for densities and moments of compound distributions. (English summary) (*see* **2001a:00042**)
**Neuenschwander, Daniel** Irren ist menschlich—oder: der Satz über die Unimodalität stabiler Verteilungen, ein Theorem mit einer bewegten Geschichte. (German summary) [To err is human—or: the theorems on the unimodality of stable distributions, a theorem with a colorful history] **2001j:01039**
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**Pemantle, Robin** Towards a theory of negative dependence. (English summary) **2001g:62039**
**Prokhorov, Yurii Vasil'evich** (*with* Christoph, Gerd; Ul'yanov, Vladimir Vasil'evich) Characterizing properties of quadratic forms. (Russian) **2001k:62020**
**Protter, Philip** *see* **Jacod, Jean, 2001b:60001**
**Rachev, Svetlozar T.** *see* **Klebanov, Lev B. et al., 2001e:60031**
**Rao, Calyampudi Radhakrishna** *see* **Asadi, Majid et al., 2001m:62016**
**Regazzini, Eugenio** An example of the interplay between statistics and special functions. **2001d:62012**
**Ren, Fu-Yao** *see* **Yu, Zu-Guo, 2001k:28013**
**Rychlik, Tomasz** Evaluating statistical functionals by means of projections onto convex cones in Hilbert spaces. (English summary) **2001j:62063**
**Sarabia, José Maria** *see* **Arnold, Barry C. et al., 2001i:62063**
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**Shanbhag, D. N.** *see* **Asadi, Majid et al., 2001m:62016**
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**Štěpán, Josef** (*with* Hlubinka, Daniel) Two-dimensional probabilities with a given conditional structure. (English summary) **2001c:60005**
**Stoyanov, Jordan** Krein condition in probabilistic moment problems. (English summary) **2001i:44014**
**Strauch, Oto** Moment problem of the type $\int_0^1 \int_0^1 F(x,y)dg(x)dg(y) = 0$. (English summary) **2001d:11079**
**Su, Jyh-Cherng** (*with* Huang, Wen-Jang) Characterizations based on conditional expectations. (English summary)
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**Su, Yingcai** Asymptotically optimal representative points of bivariate random vectors. (English summary) **2001e:62016**
**Székely, Gábor J.** *see* **Klebanov, Lev B. et al., 2001e:60031**
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**Tagliani, Aldo** Maximum entropy in the discrete generalized moment problem. (English and Italian summaries)
— Discrete probability distributions and moment problem: numerical aspects. (English summary)
**Torti, Barbara** *see* **Gerardi, Anna et al., 2001i:62011**
**Uchaikin, Vladimir V.** Montroll-Weiss problem, fractional equations, and stable distributions. (English summary) **2001f:82028**
**Ul'yanov, Vladimir Vasil'evich** *see* **Prokhorov, Yurii Vasil'evich et al., 2001k:62020**
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**Wimmer, Gejza** (*with* Altmann, Gabriel) A new type of partial-sums distributions. (English summary)
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## 60E07 Infinitely divisible distributions; stable distributions

**Albin, J. M. P.** (*with* Leadbetter, M. R.) Asymptotic behavior of conditional laws and moments of $\alpha$-stable random vectors, with application to upcrossing intensities. (English summary) **2001e:60030**
**Antonov, Aleksandr Valer'evich** *see* **Kotlyar, V. Yu.**
**Bentkus, V.** (*with* Yuozulinas, A.; Paulauskas, Vygantas) Bounds for stable measures of convex shells and stable approximations. (English summary) **2001i:60020**
**Chamayou, Jean-Marie-François** Pseudo random numbers for the Landau and Vavilov distributions. (English summary)
**Choi, Gyeong Suck** Representation of operator semi-stable distributions. (English summary) **2001a:60018**
— Characterization of strictly operator semi-stable distributions. (English summary) **2001k:60018**
**Davydov, Yu. A.** (*with* Paulauskas, Vygantas) On the estimation of the parameters of multivariate stable distributions. (English summary) **2001a:60019**
**Fofack, Hippolyte** (*with* Nolan, John P.) Tail behavior, modes and other characteristics of stable distributions. (English summary) **2001g:60030**
**Geluk, Jaap L.** (*with* de Haan, Laurens) Stable probability distributions and their domains of attraction: a direct approach. (English summary) **2001g:60031**
**de Haan, Laurens** *see* **Geluk, Jaap L., 2001g:60031**
**Jurek, Zbigniew J.** A note on gamma random variables and Dirichlet series. (English summary) **2001h:60024**
**Keller, Joseph B.** *see* **Kuske, Rachel, 2001m:60027**
**Khokhlov, Yu. S.** Pseudostable distributions and their domains of attraction. (Russian. English and Russian summaries)
**Klebanov, Lev B.** (*with* Rachev, Svetlozar T.; Székely, Gábor J.) Pre-limit theorems and their applications. (English summary) **2001e:60031**
**Kolokol'tsov, V. N.** Symmetric stable laws and stable-like jump-diffusions. **2001f:60016**
**Kotlyar, V. Yu.** (*with* Antonov, Aleksandr Valer'evich) Statistical analysis of multiplicative schemes: basic distributions. (Russian. English and Ukrainian summaries)
**Kozubowski, Tomasz J.** (*with* Rachev, Svetlozar T.) Univariate geometric stable laws. (English summary) **2001f:60017**
— (*with* Rachev, Svetlozar T.) Multivariate geometric stable laws. (English summary) **2001f:60018**
— Exponential mixture representation of geometric stable distributions. (English summary) **2001i:60021**
— (*with* Podgórski, Krzysztof) Asymmetric Laplace distributions. (English summary) **2001c:60026**
**Kuske, Rachel** (*with* Keller, Joseph B.) Rate of convergence to a stable law. (English summary) **2001m:60027**
**Leadbetter, M. R.** *see* **Albin, J. M. P., 2001e:60030**
**Lewandowski, Maciej** Point regularity of $p$-stable density in $\mathcal{R}^d$ and Fisher information. (English summary) **2001a:60020**
**Maejima, Makoto** (*with* Samorodnitsky, Gennady) Certain probabilistic aspects of semistable laws. (English summary) **2001b:60025**
— (*with* Suzuki, Kenjiro; Tamura, Yozo) Some multivariate infinitely divisible distributions and their projections. (English summary) **2001a:60021**
— (*with* Sato, Ken-iti; Watanabe, Toshiro) Operator semi-selfdecomposability, $(C, Q)$-decomposability and related nested classes. (English summary) **2001e:60032**
— (*with* Sato, Ken-iti; Watanabe, Toshiro) Completely operator semi-selfdecomposable distributions. (English summary) **2001i:60022**
**Mohammadpour, Adel** (*with* Soltani, A. Reza) Exchangeable stable random vectors and their simulations. (English summary)
**Nolan, John P.** *see* **Fofack, Hippolyte, 2001g:60030**
**Paulauskas, Vygantas** *see* **Davydov, Yu. A., 2001a:60019** *and* **Bentkus, V. et al., 2001i:60020**
**Podgórski, Krzysztof** *see* **Kozubowski, Tomasz J., 2001c:60026**
**Rachev, Svetlozar T.** *see* **Klebanov, Lev B. et al., 2001e:60031; Kozubowski, Tomasz J., 2001f:60017** *and* **2001f:60018**
**Samorodnitsky, Gennady** *see* **Maejima, Makoto, 2001b:60025**
**Sato, Ken-iti** *see* **Maejima, Makoto et al., 2001e:60032** *and* **2001i:60022**
**Smorodina, N. V.** Asymptotic expansion of the distribution of a homogeneous functional of a strictly stable vector. II. (Russian. Russian summary) **2001f:60019**
**Soltani, A. Reza** *see* **Mohammadpour, Adel**
**Suzuki, Kenjiro** *see* **Maejima, Makoto et al., 2001a:60021**

**Székely, Gábor J.** *see* **Klebanov, Lev B. et al., 2001e:60031**
**Tamura, Yozo** *see* **Maejima, Makoto et al., 2001a:60021**
**Watanabe, Toshiro** *see* **Maejima, Makoto et al., 2001e:60032** *and* **2001i:60022**
**Yakymiv, A. L.** Explicit estimates for the asymptotics of subexponential infinitely divisible distribution functions. (Russian. Russian summary) **2001c:60027**
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**Applebaum, David** Compound Poisson processes and Lévy processes in groups and symmetric spaces. (English summary) **2001h:60004**
**Baldi, Paolo** (*with* Casadio Tarabusi, Enrico; Figà-Talamanca, Alessandro) Stable laws arising from hitting distributions of processes on homogeneous trees and the hyperbolic half-plane. (English summary) **2001m:60015**
**Beghin, Luisa** (*with* Hochberg, Kenneth J.; Orsingher, Enzo) Conditional maximal distributions of processes related to higher-order heat-type equations. (English summary) **2001h:60092**
**Belinskiĭ, B. P.** (*with* Kozubowski, Tomasz J.) Exponential mixture representation of geometric stable densities. **2001e:62014**
**Braverman, Michael** Suprema of compound Poisson processes with light tails. (English summary) **2001j:60099**
**Casadio Tarabusi, Enrico** *see* **Baldi, Paolo et al., 2001m:60015**
**Christoph, Gerd** (*with* Schreiber, Karina) Scaled Sibuya distribution and discrete self-decomposability. (English summary) **2001b:60024**
**Figà-Talamanca, Alessandro** *see* **Baldi, Paolo et al., 2001m:60015**
**Geluk, Jaap L.** (*with* Peng, Liang) Second-order regular variation and the domain of attraction of stable distributions. (English summary) **2001k:60019**
**Giurgescu, Patricia** Entropy considerations in the noncommutative setting. (English summary) **2001j:46098**
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**Iksanov, O. M.** Relative stability of a sequence of maxima of observations of a shot-noise process. (Ukrainian. Ukrainian summary)
**Iyer, Srikanth K.** A note on functionals of a non-Gaussian density process via a non-Poisson system of independent Brownian motions. (English summary) **2001f:60053**
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**Koldobsky, Alexander** Positive definite distributions and subspaces of $L_{-p}$ with applications to stable processes. (English summary) **2001i:42014**
**Kolokol'tsov, V. N.** ★ Semiclassical analysis for diffusions and stochastic processes. **2001f:58073**
**Kozubowski, Tomasz J.** *see* **Belinskiĭ, B. P., 2001e:62014**
**McCrudden, M.** (*with* Walker, Seth) Embedding infinitely divisible probabilities on subsemigroups of Lie groups. (English summary) **2001k:60005**
**Meerschaert, Mark M.** (*with* Scheffler, Hans-Peter) Moment estimator for random vectors with heavy tails. (English summary) **2001a:62029**
— (*with* Scheffler, Hans-Peter) Limit laws for symmetric $k$-tensors of regularly varying measures. (English summary) **2001j:60043**
**Megyesi, Zoltán** A probabilistic approach to semistable laws and their domains of partial attraction. (English summary) **2001f:60024**
**Michaletzky, Gy.** (*with* Szeidl, L.; Várlaki, P.) On the characteristic function of the joint limit distribution of the first and second order power sums. (Russian summary) **2001d:60019**
**Mittnik, Stefan** *see* **Klebanov, Lev B. et al., 2001k:60020**
**Neuenschwander, Daniel** The class $I_0$ for random increasing upper semicontinuous functions. (Russian summary) **2001e:60008**
— (*with* Schott, René) The class $I_0$ on abstract structures. (English summary) **2001h:60010**
— Unimodality of stable Gaussian laws on the Heisenberg group. (English summary) **2001a:60006**
**Orsingher, Enzo** *see* **Beghin, Luisa et al., 2001h:60092**
**Peng, Liang** *see* **Geluk, Jaap L., 2001k:60019**
**Pipiras, Vladas** (*with* Taqqu, Murad S.) The Weierstrass-Mandelbrot process provides a series approximation to the harmonizable fractional stable motion. (English summary) **2001g:60076**
**Rachev, Svetlozar T.** *see* **Klebanov, Lev B. et al., 2001k:60020**
**Raja, C. Robinson Edward** Stable probability measures on $p$-adic Lie groups. (English summary) **2001f:60008**
**Resnick, Sidney I.** (*with* Samorodnitsky, Gennady; Xue, Fang) Growth rates of sample covariances of stationary symmetric $\alpha$-stable processes associated with null recurrent Markov chains. (English summary) **2001b:62073**
**Rezakhah, S.** (*with* Soltani, A. Reza) Expected number of real zeros of Lévy and harmonizable stable random polynomials. (English summary) **2001g:60160**
**Samorodnitsky, Gennady** *see* **Resnick, Sidney I. et al., 2001b:62073**
**Sato, Ken-iti** Semi-stable processes and their extensions. (English summary) **2001m:60110**
**Scheffler, Hans-Peter** A law of the iterated logarithm for heavy-tailed random vectors. (English summary) **2001d:60029**
— *see also* **Meerschaert, Mark M., 2001a:62029** *and* **2001j:60043**
**Schott, René** *see* **Neuenschwander, Daniel, 2001h:60010**
**Schreiber, Karina** *see* **Christoph, Gerd, 2001b:60024**
**Shah, Riddhi** Selfdecomposable measures on simply connected nilpotent groups. (English summary) **2001b:60015**
**Soltani, A. Reza** *see* **Rezakhah, S., 2001g:60160**
**Szeidl, L.** *see* **Michaletzky, Gy. et al., 2001d:60019**
**Taqqu, Murad S.** *see* **Pipiras, Vladas, 2001g:60076**
**Várlaki, P.** *see* **Michaletzky, Gy. et al., 2001d:60019**
**Vinogradov, V. V.** On a conjecture of B. Jørgensen and A. D. Wentzell: from extreme stable laws to Tweedie exponential dispersion models. (English summary) **2001i:62015**
**Volkovich, Vladimir E.** *see* **Klebanov, Lev B. et al., 2001k:60020**
**Walker, Seth** *see* **McCrudden, M., 2001k:60005**
**Watanabe, Toshiro** Continuity properties of distributions with some decomposability. (English summary) **2001g:60042**
**Xue, Fang** *see* **Resnick, Sidney I. et al., 2001b:62073**
**Yasuda, Kumi** On infinitely divisible distributions on locally compact abelian groups. (English summary) **2001h:60011**
**Zaigraev, A. Yu.** Multivariate large deviations with stable limit laws. (English summary) **2001a:60036**
**Zieliński, Ryszard** A median-unbiased estimator of the characteristic exponent of a symmetric stable distribution. (English summary) **2001j:62022**

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## 60E10 Characteristic functions; other transforms

**Ahsanullah, Mohammad** *see* **Raqab, Mohammad Z.**
**Erdoğan, M. Burak** Analytic and asymptotic properties of non-symmetric Linnik's probability densities. (English summary) **2001g:60032**
**Frontini, M.** (*with* Tagliani, Aldo) Inverse $Z$ transform for probability mass functions. (English and Italian summaries) (*see* **2001i:65003**)
**Geluk, Jaap L.** (*with* Peng, Liang) Second-order regular variation and the domain of attraction of stable distributions. (English summary) **2001k:60019**
**Gupta, J. C.** Coin tossing and Laplace inversion. (English summary) **2001e:60033**
**Klebanov, Lev B.** (*with* Mittnik, Stefan; Rachev, Svetlozar T.; Volkovich, Vladimir E.) A new representation for the characteristic function of strictly geo-stable vectors. (English summary) **2001k:60020**
**Mittnik, Stefan** *see* **Klebanov, Lev B. et al., 2001k:60020**
**Nagaev, A. V.** (*with* Zaigraev, A. Yu.) Abelian theorems for a class of probability distributions in $\mathbf{R}^d$ and their application. (English summary) **2001e:60034**
**Peng, Liang** *see* **Geluk, Jaap L., 2001k:60019**
**Plucińska, A.** (*with* Pluciński, Edmund) Characteristic functions of polynomial-normal distributions. (English summary) **2001b:60026**
**Pluciński, Edmund** *see* **Plucińska, A., 2001b:60026**
**Rachev, Svetlozar T.** *see* **Klebanov, Lev B. et al., 2001k:60020**
**Raqab, Mohammad Z.** (*with* Ahsanullah, Mohammad) Relations for marginal and joint moment generating functions of record values from power function distribution. (English summary)
**Rozovskiĭ, L. V.** On an inequality of J. Doob for characteristic functions. (Russian. Russian summary) **2001m:60028**
— An estimate for the integral of the modulus of the characteristic function of the generalized Poisson distribution in a short interval. (Russian. English and Russian summaries) **2001h:60025**
**Stefanov, Valeri T.** On some waiting time problems. (English summary) **2001i:60023**
**Tagliani, Aldo** *see* **Frontini, M., (2001i:65003)**
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## 60E15 Inequalities; stochastic orderings

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**Tómács, Tibor** A moment inequality for the maximum partial sums with a generalized superadditive structure. (English summary) **2001b:60028**
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**"About the boundaries for the Mill's ratio"** Corrigendum: "About the boundaries for the Mill's ratio" [Proc. A. Razmadze. Math. Inst. **122** (2000), 137–158; MR 2001e:60036] by A. Mosidze and Z. Tsigroshvili.
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**van Eeden, Constance** *see* **van der Laan, Paul, 2001i:62023**
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**Garralda Guillem, Ana Isabel** Structure de dépendance des lois de valeurs extrêmes bivariées. (English and French summaries) [Structure of dependence for bivariate extreme value distributions] **2001c:60086**
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## 60Fxx Limit theorems [see also 28Dxx, 60B12]

### 60F05 Central limit and other weak theorems

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## 60F17 Functional limit theorems; invariance principles

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**Grill, Karl** Some remarks on Chung's law. (English summary) **2001m:60067**
**Grimmett, Geoffrey R.** *see* **Bezuidenhout, Carol, 2001g:60106**
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**Henze, Norbert** *see* **Gürtler, Nora, 2001j:62058**
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**Iyer, Srikanth K.** A note on functionals of a non-Gaussian density process via a non-Poisson system of independent Brownian motions. (English summary) **2001f:60053**
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**Kallenberg, Olav** Asymptotically invariant sampling and averaging from stationary-like processes. (English summary) **2001g:60079**
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**Klenke, Achim** Diffusive clustering of interacting Brownian motions on $\mathbf{Z}^2$. (English summary) **2001h:60178**
**Kokoszka, Piotr** (*with* Leipus, Remigijus) Detection and estimation of changes in ARCH processes. **2001h:62166**
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**Li, Deli** (*with* Huang, Mei Ling; Rosalsky, Andrew) Strong invariance principles for arrays. (English summary) **2001f:60035**
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**Louhichi, Sana** Weak convergence for empirical processes of associated sequences. (English and French summaries) **2001j:60035**
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**Mulinacci, Sabrina** (*with* Pratelli, Maurizio) Functional convergence of Snell envelopes: applications to American options approximations. (English summary) **2001j:91076**
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**Prieur, Clémentine** (*with* Doukhan, Paul) A triangular central limit theorem under a new weak dependence condition. (English summary) **2001k:60029**
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**Pukhal'skiĭ, A. A.** Moderate deviations for queues in critical loading. (English summary) **2001f:60031**
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**Ravishankar, K.** (*with* Triolo, L.) Diffusive limit of the Lorentz model with a uniform field starting from the Markov approximation. (English summary) **2001i:60172**
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**Seignourel, Paul** Discrete schemes for processes in random media. (English summary) **2001m:60230**
**Sethuraman, Sunder** (*with* Varadhan, Srinivasa R. S.; Yau, Horng-Tzer) Diffusive limit of a tagged particle in asymmetric simple exclusion processes. (English summary) **2001k:60146**
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## 60F20 Zero-one laws

Items with secondary classifications in 60F20

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**Lotfallah, Wafik Boulos** Strong 0-1 laws in finite model theory. (English summary) **2001k:03067**
**Nishiyama, Yoichi** Weak convergence of some classes of martingales with jumps. (English summary) **2001g:60054**
**O'Brien, George L.** Unusually large values for spectrally positive stable and related processes. (English summary) **2001b:60042**
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**Šikić, Hrvoje** Zero-one law for some Brownian functionals. (English summary) **2001k:60115**
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**Wiśniewski, Andrzej** 0-1 law for product measures in product of groups. (English summary) **2001j:60013**
**Zhu, Li-Xing** *see* **Sun, Liuquan, 2001b:62033**

## 60F25 $L^p$-limit theorems

**Shao, Qi-Man** A comparison theorem on moment inequalities between negatively associated and independent random variables. (English summary) **2001g:60077**

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**Abraham, Paul** (*with* Alexopoulos, John; Dilworth, Stephen J.) On the convergence in mean of martingale difference sequences. (English summary) **2001k:60042**
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**Cuesta-Albertos, Juan A.** *see* **del Barrio, Eustasio et al., 2001a:60024**
**Dilworth, Stephen J.** *see* **Abraham, Paul et al., 2001k:60042**
**Graf, Siegfried** (*with* Luschgy, Harald) ★ Foundations of quantization for probability distributions. **2001m:60043**
**Hong, Dug Hun** (*with* Volodin, Andrei I.) Marcinkiewicz-type law of large numbers for double arrays. (English summary) **2001i:60052**
**Jagers, Peter** Branching processes with dependence but homogeneous growth. (English summary) **2001g:60209**
— (*with* Sagitov, Serik) The growth of general population-size-dependent branching processes year by year. (English summary) **2001g:60208**
**de Jong, Robert M.** Weak laws of large numbers for dependent random variables. (English and French summaries) **2001j:60042**
**Jurek, Zbigniew J.** A note on gamma random variables and Dirichlet series. (English summary) **2001h:60024**
**Klass, Michael J.** (*with* Nowicki, Krzysztof) A symmetrization-desymmetrization procedure for uniformly good approximation of expectations involving arbitrary sums of generalized $U$-statistics. (English summary) **2001k:60026**
**Luschgy, Harald** *see* **Graf, Siegfried, 2001m:60043**
**Matrán, Carlos** *see* **del Barrio, Eustasio et al., 2001a:60024**
**Nowicki, Krzysztof** *see* **Klass, Michael J., 2001k:60026**
**Rodríguez-Rodríguez, Jesús M.** *see* **del Barrio, Eustasio et al., 2001a:60024**
**Sagitov, Serik** *see* **Jagers, Peter, 2001g:60208**
**Stoica, Gheorghe** Weak laws of large numbers in some non-commutative spaces. (English summary) **2001f:46103**
**Volodin, Andrei I.** *see* **Hong, Dug Hun, 2001i:60052**

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**Lecture Notes in Mathematics** *see* **Graf, Siegfried, 2001m:60043**

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**Akimov, D. V.** The accuracy of an approximation of local probabilities of sums of independent integer random variables. (Russian. English and Uzbek summaries) **2001m:60078**

**Anšimov, V. V.** (*with* Kaibah, Hussein Salem) Asymptotic behaviour of solutions of stochastic equations and applications in statistics. (English and Turkish summaries)

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**Fort, Gersende** (*with* Moulines, Eric) $V$-subgeometric ergodicity for a Hastings-Metropolis algorithm. (English summary) **2001j:60067**

**Fukuyama, Katusi** (*with* Tomokuni, Tetsuo) On pseudorandom functions and asymptotic distributions. (English summary) **2001m:60079**

**Girko, V. L.** Random block matrix density and $SS$-law. (English summary) **2001e:60073**

— Twenty five years of stochastic canonical equation for normalized spectral functions of random symmetric matrices. (English summary) **2001m:60080**

— Stochastic canonical equation for normalized spectral functions of random Gram matrices. (English summary) **2001m:60081**

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— (*with* Ro, Paul I.) The law of large numbers for fuzzy numbers with unbounded supports. (English summary)

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— (*with* Kim, Yun Kyong) Kolmogorov's strong law of large numbers for fuzzy random variables. (English summary)

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**Kim, Gwan Young** *see* **Joo, Sang Yeol et al.**

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**Pakes, Anthony G.** On the convergence of moments of geometric and harmonic means. (English summary) **2001b:60051**

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**Shen, Jianhong** On the singular values of Gaussian random matrices. (English summary) **2001m:60082**

**Stettner, Łukasz** Remarks on ergodic conditions for Markov processes on Polish spaces. (English summary)

**Tomokuni, Tetsuo** *see* **Fukuyama, Katusi, 2001m:60079**

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**Weber, Michel Jean Georges** Une régularisation spectrale élémentaire. (French summary) [An elementary spectral regularization] (*see* **2001e:60002**)

— A propos d'une démonstration de K. Tandori. (French summary) [On a proof by K. Tandori] (*see* **2001e:60002**)

— Controlling orthogonal series with irrational rotations. (English summary) **2001g:60078**

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**Wu, Hsien-Chung** The laws of large numbers for fuzzy random variables. (English summary)

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**Yu, Zhao Xia** (*with* Zhou, Zhi; Wang, Zong Bin) Law of large numbers of fuzzy random variables. (Chinese. English and Chinese summaries)

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**Albin, J. M. P.** (*with* Leadbetter, M. R.) Asymptotic behavior of conditional laws and moments of $\alpha$-stable random vectors, with application to upcrossing intensities. (English summary) **2001e:60030**

**Antipov, M. V.** Multiple congruent convolutions of densities of distributions and estimates in the space $L^\infty([0,1)^n)$. (Russian. Russian summary)

**Asmussen, Søren** (*with* Møller, Jakob Riishede) Tail asymptotics for $M/G/1$ type queueing processes with subexponential increments. (English summary) **2001c:60146**

**Baddeley, Adrian J.** *see* **Cressie, Noel et al., 2001g:60113**

**Baishanski, Bogdan** Norms of powers and a central limit theorem for complex-valued probabilities. **2001e:42001**

**Baldi, Paolo** (*with* Casadio Tarabusi, Enrico; Figà-Talamanca, Alessandro) Stable laws arising from hitting distributions of processes on homogeneous trees and the hyperbolic half-plane. (English summary) **2001m:60015**

**Bellitser, Eduard** Recursive estimation of a drifted autoregressive parameter. (English summary) **2001f:62052**

**Bobkov, Sergei G.** (*with* Houdré, Christian) Weak dimension-free concentration of measure. (English summary) **2001i:28005**

**Boutet de Monvel-Berthier, Anne-Marie** (*with* Khorunzhiĭ, A. M.) On universality of the smoothed eigenvalue density of large random matrices. (English summary) **2001a:82033**

**Breyer, L. A.** (*with* Roberts, Gareth O.) A quasi-ergodic theorem for evanescent processes. (English summary) **2001d:60079**

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**Cressie, Noel** (*with* Zhu, Jun; Baddeley, Adrian J.; Nair, M. Gopalan) Directed Markov point processes as limits of partially ordered Markov models. (English summary) **2001g:60113**

**De Cock, Mieke** (*with* Fannes, Mark; Spincemaille, P.) On quantum dynamics and statistics of vectors. (English summary) **2001c:81049**

**De Grande-De Kimpe, N.** *see* **Al'beverio, S. et al., 2001m:81004**

**Delannay, R.** (*with* Le Caër, G.) Exact densities of states of fixed trace ensembles of random matrices. (English summary) **2001h:82034**

**Dewan, Isha** (*with* Prakasa Rao, B. L. S.) Explicit bounds on Lévy-Prohorov distance for a class of multidimensional distribution functions. (English summary) **2001m:60034**

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**Gärtner, Jürgen** (*with* König, Wolfgang) Moment asymptotics for the continuous parabolic Anderson model. (English summary) **2001h:60176**

**Giné, Evarist** *see* **Koltchinskii, Vladimir, 2001e:47080**

**Ha, M. D.** Classes of operators in ergodic theory satisfying the Gaussian distribution property. (English summary) **2001h:28022**

**Haake, Fritz** A brief introduction to random matrices.

**Handelman, David E.** Eigenvectors and ratio limit theorems for Markov chains and their relatives. (English summary) **2001e:60142**

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**Houdré, Christian** *see* **Bobkov, Sergei G., 2001i:28005**

**Huang, Tao** (*with* Sigman, Karl) Steady-state asymptotics for tandem, split-match and other feedforward queues with heavy tailed service. (English summary) **2001c:60148**

**Jelenković, Predrag R.** *see* **Coffman, E. G., Jr. et al., 2001h:60170**

**Khodzhibaev, V. R.** Asymptotic representations for the characteristics of exit from an interval for random processes with independent increments. (Russian. Russian summary) **2001c:60077**

**Khorunzhiĭ, A. M.** *see* **Boutet de Monvel-Berthier, Anne-Marie, 2001a:82033**

**Khrennikov, Andrei** Laws of large numbers in non-Archimedean probability theory. (Russian. Russian summary) **2001g:60014**

— *see also* **Al'beverio, S. et al., 2001m:81004**

**Koltchinskii, Vladimir** (*with* Giné, Evarist) Random matrix approximation of spectra of integral operators. (English summary) **2001e:47080**

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**Li, Wenbo V.** (*with* Linde, Werner) Approximation, metric entropy and small ball estimates for Gaussian measures. (English summary) **2001c:60059**

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**Maehara, Hiroshi** (*with* Ueda, Sumie) On the waiting time in a Janken game. (English summary)

**Malinovskiĭ, Vsevolod K.** Probabilities of ruin when the safety loading tends to zero. (English summary) **2001k:91086**

**Marková-Stupňanová, Andrea** $T$-law of large numbers for fuzzy numbers. (English summary) **2001g:03100**

**Maslov, Viktor P.** (*with* Chebotarëv, A. M.) Limit theorems in new probability spaces associated with quantum statistics. (Russian) **2001i:82010**

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**van Moerbeke, Pierre** Random matrices and random permutations. **2001h:82038**

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**Pittenger, Arthur O.** (*with* Ryff, John V.) A probabilistic approach to scaling equations. (English summary) **2001c:39041**

**Prakasa Rao, B. L. S.** *see* **Dewan, Isha, 2001m:60034**

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**Rosén, Bengt** On inclusion probabilities for order $\pi$ps sampling. (English summary) **2001h:62017**

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**Shukla, Pragya** Eigenvalue correlations for generalized Gaussian ensembles. (English summary) **2001k:82050**

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**Soshnikov, Alexander B.** Universality at the edge of the spectrum in Wigner random matrices. (English summary) **2001i:82037**

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**Tracy, Craig A.** (*with* Widom, Harold) Random unitary matrices, permutations and Painlevé. (English summary) **2001h:15019**

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## 60Gxx Stochastic processes

**Obretenov, Apostol** Bounds of deviation from exponentiality for a probability density class. (English and Russian summaries) (*see* **2001a:00036**)

## 60G05 Foundations of stochastic processes

**Cadre, Benoît** (*with* Gannoun, Ali) Asymptotic normality of consistent estimate of the conditional $L_1$-median. (English summary) **2001m:60085**
**Chen, Bing Wei** (*with* Zhuang, Xing Wu) Linear order for two families of locally comparable $\sigma$-fields. (Chinese. English and Chinese summaries)
**Gannoun, Ali** *see* **Cadre, Benoît, 2001m:60085**
**Varadarajan, V. S.** Some remarks on the continuity of random fields on Lipschitz spaces. **2001i:60062**
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**Chretien, Karl** (*with* Kurtz, David; Maisonneuve, Bernard) Processus gouvernés par des noyaux. (French summary) [Processes governed by kernels] (*see* **2001b:60004**)
**Kurtz, David** *see* **Chretien, Karl et al., (2001b:60004)**
**Maisonneuve, Bernard** *see* **Chretien, Karl et al., (2001b:60004)**
**Speicher, Roland** A conceptual proof of a basic result in the combinatorial approach to freeness. (English summary) **2001m:46147**
**Yan, Guo Jun** A note on the measurability of processes. (Chinese. English and Chinese summaries)

## 60G07 General theory of processes

**Stepanov, Andreĭ Valer'evich** Records when the last point of increase is an atom. (English summary)

Items with secondary classifications in 60G07

**Beghdadi-Sakrani, S.** (*with* Emery, Michel) On certain probabilities equivalent to coin-tossing, d'après Schachermayer. **2001d:60093**
**Chretien, Karl** (*with* Kurtz, David; Maisonneuve, Bernard) Processus gouvernés par des noyaux. (French summary) [Processes governed by kernels] (*see* **2001b:60004**)
**De Meyer, Bernard** Une simplification de l'argument de Tsirelson sur le caractère non-brownien des processus de Walsh. [A simplification of Tsirelson's argument concerning the non-Brownian character of Walsh processes] (*see* **2001b:60004**)
**Emery, Michel** (*with* Schachermayer, Walter) Brownian filtrations are not stable under equivalent time-changes. **2001d:60094**
— *see also* **Beghdadi-Sakrani, S., 2001d:60093**
**Kurtz, David** *see* **Chretien, Karl et al., (2001b:60004)**
**Maisonneuve, Bernard** *see* **Chretien, Karl et al., (2001b:60004)**
**Rogers, L. C. G.** (*with* Williams, David) ★ Diffusions, Markov processes, and martingales. Vol. 1. (English summary) **2001g:60188**
— (*with* Williams, David) ★ Diffusions, Markov processes, and martingales. Vol. 2. (English summary) **2001g:60189**
**Schachermayer, Walter** On certain probabilities equivalent to Wiener measure, d'après Dubins, Feldman, Smorodinsky and Tsirelson. (English summary) **2001d:60092**
— *see also* **Emery, Michel, 2001d:60094**
**Schilling, René L.** Sobolev embedding for stochastic processes. **2001i:60070**
**Sharpe, Michael J.** Martingales on random sets and the strong martingale property. (English summary) **2001e:60086**
**Tsukahara, Hideatsu** A limit theorem for the prediction process under absolute continuity. (English summary) **2001c:60068**
**Williams, David** *see* **Rogers, L. C. G., 2001g:60188** *and* **2001g:60189**

## 60G09 Exchangeability

**Bassan, Bruno** (*with* Capello, Daniela; Scarsini, Marco) An improved version of a theorem concerning finite row-column exchangeable arrays. (English summary) **2001j:60068**
**Capello, Daniela** *see* **Bassan, Bruno et al., 2001j:60068**
**Guglielmi, Alessandra** (*with* Melilli, Eugenio) Approximating de Finetti's measures for partially exchangeable sequences. (English summary) **2001h:60059**
**Kallenberg, Olav** Asymptotically invariant sampling and averaging from stationary-like processes. (English summary) **2001g:60079**
— Spreading-invariant sequences and processes on bounded index sets. (English summary) **2001j:60069**
**Melilli, Eugenio** *see* **Guglielmi, Alessandra, 2001h:60059**
**Scarsini, Marco** *see* **Bassan, Bruno et al., 2001j:60068**

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**D'Aristotile, Anthony** An invariance principle for triangular arrays. (English summary) **2001i:60060**
**Derriennic, Yves** (*with* Kłopotowski, Andrzej) On Bernstein's example of three pairwise independent random variables. (English summary) **2001m:60006**
**Diaconis, Persi** (*with* Evans, Steven N.) Immanants and finite point processes. (English summary) **2001m:15018**
**Elalaoui-Talibi, Hussain** (*with* Casukhela, Kameswarrao S.) A note on the multivariate local time intensity of exchangeable interval partitions. (English summary) **2001d:60050**
**Evans, Steven N.** *see* **Diaconis, Persi, 2001m:15018**
**Fortini, Sandra** (*with* Ladelli, Lucia; Regazzini, Eugenio) Exchangeability, predictive distributions and parametric models. (English summary) **2001i:62002**
**Gerardi, Anna** (*with* Spizzichino, Fabio; Torti, Barbara) Exchangeable mixture models for lifetimes: the role of "occupation numbers". (English summary) **2001i:62011**
**Gupta, J. C.** Partial Hausdorff sequences and symmetric probabilities on finite products of $\{0,1\}$. (English summary) **2001c:60037**
— Coin tossing and Laplace inversion. (English summary) **2001e:60033**
**Inoue, Hiroshi[1]** Exchangeability and convergence for random sets. (English summary)
**Kallenberg, Olav** Ballot theorems and sojourn laws for stationary processes. (English summary) **2001b:60052**
**Kłopotowski, Andrzej** *see* **Derriennic, Yves, 2001m:60006**
**Ladelli, Lucia** *see* **Fortini, Sandra et al., 2001i:62002**
**Muliere, P.** (*with* Secchi, Piercesare; Walker, Stephen G.) Urn schemes and reinforced random walks. (English summary) **2001h:62011**
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**Pitman, James W.** Coalescents with multiple collisions. (English summary) **2001h:60016**
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**Rao, Calyampudi Radhakrishna** (*with* Shanbhag, D. N.) Further versions of the convolution equation. (English and Hindi summaries)
**Regazzini, Eugenio** (*with* Sazonov, Vyacheslav Vasil'evich) Approximation of laws of multinomial parameters by mixtures of Dirichlet distributions with applications to Bayesian inference. (English summary) **2001f:62022**
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**Spizzichino, Fabio** *see* **Gerardi, Anna et al., 2001i.62011**
**Torti, Barbara** *see* **Gerardi, Anna et al., 2001i:62011**
**Walker, Stephen G.** *see* **Muliere, P. et al., 2001h:62011**

## 60G10 Stationary processes

**Abadi, Miguel** (*with* Galves, Antonio) Inequalities for the occurrence times of rare events in mixing processes. The state of the art. (English summary)
**Anděl, Jiří** (*with* Hrach, Karel) On calculation of stationary density of autoregressive processes. (English summary) **2001g:60080**
**Baek, Jong-Il** *see* **Kim, Tae-Sung et al., 2001d:60031**
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**Champagnat, F.** (*with* Idier, Jérôme) On the correlation structure of unilateral AR processes on the plane. (English summary) **2001j:60070**
**Dzhanashiya, G. A.** (*with* Lagvilava, E. T.; Èpremidze, L. N.) On an approximate factorization of a positive-definite matrix function. (Russian)
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**García, Antonio G.** (*with* Muñoz-Bouzo, María J.) On sampling stationary stochastic processes. (English summary) **2001e:60074**
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**Hamdan, D.** Markov chains with positive transitions are not determined by any $p$-marginals. (English summary) **2001g:60081**
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**Inoue, Akihiko** Asymptotics for the partial autocorrelation function of a stationary process. **2001e:60075**
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**Kim, Tae-Sung** (*with* Baek, Jong-Il; Lim, Jae-Hak) A central limit theorem for the stationary linear process generated by an associated process. (English summary) **2001d:60031**
**Kłopotowski, Andrzej** (*with* Robertson, James B.) Some new examples of pairwise independent random variables. (English summary) **2001e:60076**
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**Kozachenko, Yu. V.** Conditions for the convergence and for the rate of convergence of random series in $K_\alpha$-spaces of random variables. I. (Ukrainian. Ukrainian summary)
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**Kwon, Youngmee** *see* **Lee, Chanho, 2001a:60042**
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**Shao, Qi-Man** *see* **Li, Wenbo V., 2001g:60087**
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## 60G18 Self-similar processes

**Anh, Vo** (*with* Tieng, Quang Minh; Tse, Y. K.) Cointegration of stochastic multifractals with application to foreign exchange rates. (English summary) (*see* **2001c:90007**)
— (*with* Nguyen, C. N.) Stochastic analysis of fractional Riesz-Bessel motion. (English summary) **2001h:60066**
**Ayache, Antoine** (*with* Lévy-Véhel, Jacques) Generalized multifractional Brownian motion: definition and preliminary results. (English summary) **2001d:60037**
**Benassi, Albert** (*with* Roux, Daniel) Elliptic self-similar stochastic processes. (English summary) **2001a:60045**
**Bianchi, Sergio** Testing self-affinity of stock returns. (English summary)
**Chi, Zhiyi** Stationary self-similar random fields on the integer lattice. (English summary) **2001k:60057**
**Cohen, Serge** From self-similarity to local self-similarity: the estimation problem. (English summary) **2001c:60063**
**Coutin, Laure** (*with* Qian, Zhongmin) Stochastic differential equations for fractional Brownian motions. (English and French summaries) **2001d:60038**
**Embrechts, Paul** (*with* Maejima, Makoto) An introduction to the theory of self-similar stochastic processes. (English summary) **2001j:60078**
**Herburt, Irmina** (*with* Małysz, Robert) On convergence of box dimensions of fractal interpolation stochastic processes. (English summary) **2001m:60092**
**Huang, Li-hu** (*with* Li, Bing-zhang; Liu, Lu-qin) The exact measure functions of the images for a class of self-similar processes. (English summary) **2001d:60039**
**Jondral, Friedrich** *see* **Kriesten, Reiner et al.**
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**Lévy-Véhel, Jacques** *see* **Ayache, Antoine, 2001d:60037**
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**Lin, Zheng Yan** Lévy's moduli of continuity of multifractional Brownian motion. (English and Chinese summaries) **2001i:60071**
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**Ruzmaikina, A. A.** Stieltjes integrals of Hölder continuous functions with applications to fractional Brownian motion. (English summary) **2001k:60058**
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**Sellan, Fabrice** *see* **Meyer, Yves et al., 2001c:60064**
**Taqqu, Murad S.** *see* **Meyer, Yves et al., 2001c:60064**
**Tieng, Quang Minh** *see* **Anh, Vo et al., (2001c:90007)**
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**Watanabe, Toshiro** *see* **Maejima, Makoto et al., 2001a:60046**
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**Bardet, Jean-Marc** Testing for the presence of self-similarity of Gaussian time series having stationary increments. (English summary) **2001h:62156**
**Berkes, István** (*with* Horváth, Lajos) Limit theorems for logarithmic averages of fractional Brownian motions. (English summary) **2001b:60057**
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**Chan, Grace** (*with* Wood, Andrew T. A.) Increment-based estimators of fractal dimension for two-dimensional surface data. (English summary) **2001c:62110**
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**Dunker, Thomas** Estimates for the small ball probabilities of the fractional Brownian sheet. (English summary) **2001g:60085**
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**Gneiting, Tilmann** Power-law correlations, related models for long-range dependence and their simulation. (English summary)
**Guérin, Charles-Antoine** Wavelet analysis and covariance structure of some classes of non-stationary processes. (English summary) **2001i:60066**
**Heyde, C. C.** A risky asset model with strong dependence through fractal activity time. (English summary) **2001b:91048**
**Horváth, Lajos** *see* **Berkes, István, 2001b:60057**
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**Hutchinson, John E.** (*with* Rüschendorf, Ludger) Selfsimilar fractals and selfsimilar random fractals. (English summary) **2001i:60084**
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**Khoshnevisan, Davar** (*with* Lewis, Thomas M.) Iterated Brownian motion and its intrinsic skeletal structure. (English summary) **2001m:60183**
— (*with* Shi, Zhan) Fast sets and points for fractional Brownian motion. (English summary) **2001j:60076**
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**Ludeña, Carenne** Parametric estimation for Gaussian long-range dependent processes based on the log-periodogram. (English summary) **2001h:62168**
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**Pancheva, E. I.** Semi-self-similar extremal processes. (English summary) **2001c:60087**
**Pasik-Duncan, Bozenna** *see* **Duncan, Tyrone E. et al., 2001g:60129**
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— (*with* Taqqu, Murad S.) Convergence of the Weierstrass-Mandelbrot process to fractional Brownian motion. (English summary) **2001j:60066**
— (*with* Taqqu, Murad S.) Convergence of weighted sums of random variables with long-range dependence. (English summary) **2001i:60042**
**Resnick, Sidney I.** (*with* Rootzén, Holger) Self-similar communication models and very heavy tails. (English summary) **2001j:60172**
**Robinson, Peter M.** *see* **Giraitis, Liudas et al., 2001k:62104**
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**Roubaud, Marie-Christine** *see* **Kleptsyna, M. L. et al., 2001k:93131**

**Roueff, F.** (*with* Lévy-Véhel, Jacques) A regularization approach to fractional dimension estimation. (English summary) (*see* **2001m:00019**)
**Rüschendorf, Ludger** *see* **Hutchinson, John E., 2001i:60084** *and* **2001m:60112**
**Sato, Ken-iti** Semi-stable processes and their extensions. (English summary) **2001m:60110**
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**Shi, Zhan** *see* **Khoshnevisan, Davar, 2001j:60076**
**Stegeman, A.** Heavy tails versus long-range dependence in self-similar network traffic. (English summary) **2001k:90011**
**Surgailis, Donatas** *see* **Giraitis, Liudas et al., 2001k:62104**
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**Watanabe, Toshiro** *see* **Maejima, Makoto et al., 2001g:60110**
**Waymire, Edward C.** *see* **Burd, Gregory A. et al., 2001i:60140**
**Winn, Ronald D.** *see* **Burd, Gregory A. et al., 2001i:60140**
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**Xu, Ci Wen** Multifractal decompositions of multitype random recursive sets with respect to statistically self-similar measures. (Chinese. Chinese summary) **2001e:60099**
**Yan, Haifeng** (*with* Chen, Chunsheng[2]) On the Hausdorff dimension of the inverse image for any compact set under a self-similar Markov process. (English and Chinese summaries)
**Yasuda, Kumi** On infinitely divisible distributions on locally compact abelian groups. (English summary) **2001h:60011**
**Ye, Chen** *see* **Zhang, Feng[2] et al., 2001d:60081**
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## 60G20 Generalized stochastic processes

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**Gong, Fuzhou** (*with* Hu, Qiuling) Generalized Wiener functionals, white noise distributions, and distributions on the real Schwartz spaces of generalized functions. (English and Chinese summaries) **2001e:60079**
**Gorostiza, Luis G.** *see* **Bojdecki, Tomasz, 2001k:60060**
**Heyer, Herbert** Champs aléatoires généralisés sur les groupes localement compacts abéliens. [Generalized random fields on locally compact abelian groups] **2001c:60066**
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**Luo, Shun-Long** (*with* Yan, Jia-An) Characterization of continuous operators on infinite dimension distribution spaces. (English summary) **2001h:60067**
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**Bakun, V. V.** On generalized local time for a Brownian motion process. (Russian. English and Ukrainian summaries) **2001h:60140**
**Benth, Fred Espen** (*with* Gjessing, Håkon K.) A nonlinear parabolic equation with noise. A reduction method. (English summary) **2001g:60152**
**Blount, Douglas** (*with* Bose, Amit) Fourier analysis applied to super stable and related processes. (English summary) **2001i:60100**
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**Đinh Quang Lu'u** On convergence in probability of martingale-like sequences. (English summary) **2001g:60103**
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**Gorostiza, Luis G.** (*with* Li, Zeng Hu) High-density fluctuations of immigration branching particle systems. (English summary) **2001j:60152**
**Grothaus, Martin** (*with* Streit, Ludwig) On regular generalized functions in white noise analysis and their applications. (English summary) **2001e:60136**
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**Kachanovskiĭ, N. A.** Biorthogonal Appell-like systems in a Hilbert space. (English summary) **2001d:46058**
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**Koshkin, S. V.** *see* **Kachanovskiĭ, N. A., 2001g:46098**
**Kubo, Izumi** (*with* Kuo, Hui-Hsiung) Simple proof of Hida distribution characterization theorem. (English summary) **2001d:60072**
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**Roubaud, Marie-Christine** *see* **Kleptsyna, M. L. et al., 2001k:93131**
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**Silva, José Luis** *see* **Kondrat'ev, Yu. G. et al., 2001d:60071**
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**Streit, G. L.** *see* **Grothaus, Martin et al., 2001a:60071**
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**Yoshida, Minoru W.** Defining reflection positive random fields with interactions by polynomials of generalized Euclidean free fields. (*see* **2001d:82002**)

## 60G25 Prediction theory [see also 62M20]

**Bondon, Pascal** Représentation autorégressive du prédicteur à passé infini incomplet d'une série chronologique stationnaire. (English and French summaries) [Autoregressive representation of the predictor with incomplete infinite past of a stationary time series] **2001c:60067**
**Bulot, Christophe** (*with* Solev, Valentin) Prediction problems and Hunt-Muckenhoupt-Wheeden condition. (Russian summary) **2001g:60090**
**Celant, Giorgio** Exact solutions to the problem of predicting a vast class of weakly stationary, linearly singular, discrete-parameter stochastic processes. (English summary) **2001i:60072**
**Dym, Harry** M. G. Krein's contributions to prediction theory. (English summary) **2001h:60068**
**Fomin, Vladimir N.** *see* **Gorshkov, O. G.**
**Gorshkov, O. G.** (*with* Fomin, Vladimir N.) Operator approach to time series filtering problem. (English summary)
**Györfi, László** *see* **Yakowitz, Sidney Jesse et al., 2001a:60047**
**Kaneko, Akihito** *see* **Okabe, Yasunori, 2001k:60061**
**Kieffer, John C.** *see* **Yakowitz, Sidney Jesse et al., 2001a:60047**
**(Krein, Mark Grigor'evich)** *see* **Dym, Harry, 2001h:60068**
**Makagon, Andrzej** Theoretical prediction of periodically correlated sequences. (English summary) **2001m:60093**
**Moklyachuk, M. P.** Extrapolation of stationary sequences from observations with noise. (Ukrainian. Ukrainian summary)
**Morvai, Gusztáv** *see* **Yakowitz, Sidney Jesse et al., 2001a:60047**
**Okabe, Yasunori** (*with* Kaneko, Akihito) On a non-linear prediction analysis for multi-dimensional stochastic processes with its applications to data analysis. (English summary) **2001k:60061**
**Solev, Valentin** *see* **Bulot, Christophe, 2001g:60090**
**Tsukahara, Hideatsu** A limit theorem for the prediction process under absolute continuity. (English summary) **2001c:60068**
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**Xu, Ye Ji** Linear prediction theory of a homogeneous random field with discrete parameters. VIII. (Chinese. English and Chinese summaries)
**Yakowitz, Sidney Jesse** (*with* Györfi, László; Kieffer, John C.; Morvai, Gusztáv) Strongly consistent nonparametric forecasting and regression for stationary ergodic sequences. (English summary) **2001a:60047**

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**Angulo, J. M.** (*with* Ruiz-Medina, M. D.) Multi-resolution approximation to the stochastic inverse problem. (English summary) **2001e:60100**
**Cesa-Bianchi, Nicolò** (*with* Lugosi, Gábor) On prediction of individual sequences. (English summary) **2001g:62008**
**Champagnat, F.** (*with* Idier, Jérôme) On the correlation structure of unilateral AR processes on the plane. (English summary) **2001j:60070**
**Demin, N. S.** (*with* Rozhkova, O. V.; Rozhkova, Svetlana) Generalized sliding extrapolation of stochastic processes based on the set of continuous and discrete observations with memory. (Russian. Russian summary) **2001h:93086**
**Dzhanashiya, G. A.** (*with* Lagvilava, E. T.; Èpremidze, L. N.) On an approximate factorization of a positive-definite matrix function. (Russian)
**Èpremidze, L. N.** *see* **Dzhanashiya, G. A. et al.**
**Fritzsche, Bernd** (*with* Fuchs, Stefan H.; Kirstein, Bernd) On subclasses of the Carathéodory class with matricial extremal property. (English summary) **2001e:30068**
**Fuchs, Stefan H.** *see* **Fritzsche, Bernd et al., 2001e:30068**
**Idier, Jérôme** *see* **Champagnat, F., 2001j:60070**
**Kirstein, Bernd** *see* **Fritzsche, Bernd et al., 2001e:30068**
**Klotz, Lutz** An interpolation problem for multivariate stationary sequences. (English summary) **2001i:60063**
**Lagvilava, E. T.** *see* **Dzhanashiya, G. A. et al.**
**Lugosi, Gábor** *see* **Cesa-Bianchi, Nicolò, 2001g:62008**
**Novković, Momčilo** On exponential autoregressive time series models. (English summary) **2001m:62104**
**Nuzman, Carl J.** (*with* Poor, H. Vincent) Linear estimation of self-similar processes via Lamperti's transformation. (English summary) **2001d:60040**

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**Urbanik, K.** A duality principle for stationary random sequences. (English summary) **2001j:60072**
**Zemlyak, T. V.** On the reconstruction of the Wiener field on a plane from its values on closed curves. (Russian. English and Ukrainian summaries) **2001d:60053**

## 60G30 Continuity and singularity of induced measures

**Buckley, Stephen M.** (*with* MacManus, Paul) Singular measures and the key of $G$. (English summary) **2001h:60069**
**Darwich, A. R.** About the absolute continuity and orthogonality for two probability measures. (English summary) **2001m:60094**
**Frittelli, Marco** (*with* Lakner, Peter) Almost sure characterization of martingales. (English summary) **2001e:60080**
**Klenke, Achim** Absolute continuity of catalytic measure-valued branching processes. (English summary) **2001h:60070**
**Krasnits'kiĭ, S. M.** On a spectral condition for the equivalence of Gaussian measures corresponding to homogeneous random fields. (Ukrainian. Ukrainian summary)
**Lakner, Peter** *see* **Frittelli, Marco, 2001e:60080**
**MacManus, Paul** *see* **Buckley, Stephen M., 2001h:60069**
**Ren, Yan Xia** Absolute continuities of exit measures for superdiffusions. (English summary)
**Schachermayer, Walter** (*with* Schachinger, Werner) Is there a predictable criterion for mutual singularity of two probability measures on a filtered space? (Russian summary) **2001c:60069**
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**Beghdadi-Sakrani, S.** (*with* Emery, Michel) On certain probabilities equivalent to coin-tossing, d'après Schachermayer. **2001d:60093**
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**Hu, Tian-You** Some open questions related to probability, fractals, wavelets and tiling. (English summary) **2001e:60026**
**Kahane, Jean-Pierre** Multiplicative chaos and multimeasures. **2001g:28015**
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**Lewandowski, Maciej** Point regularity of $p$-stable density in $\mathscr{R}^d$ and Fisher information. (English summary) **2001a:60020**
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**Liptser, Robert Sh.** (*with* Shiryaev, Albert N.) ★ Statistics of random processes. I. (English summary) **2001k:60001a**
**Schachermayer, Walter** On certain probabilities equivalent to Wiener measure, d'après Dubins, Feldman, Smorodinsky and Tsirelson. (English summary) **2001d:60092**
— *see also* **Emery, Michel, 2001d:60094**
**Shiryaev, Albert N.** *see* **Liptser, Robert Sh., 2001k:60001a**
**Srimurthy, Vikram K.** On the equivalence of measures on loop space. (English summary) **2001m:58022**
**Stroock, Daniel W.** Doing analysis by tossing a coin. (English summary) **2001j:60003**
**Taniguchi, Setsuo** Stochastic oscillatory integrals with quadratic phase function and Jacobi equations. (English summary) **2001c:60092**
**Watanabe, Toshiro** Continuity properties of distributions with some decomposability. (English summary) **2001g:60042**

## 60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 93E10, 93E11, 94Axx]

**Bertein, Jean-Claude** (*with* Ceschi, Roger) ★ Processus stochastiques et filtrage de Kalman. (French. French summary) [Stochastic processes and Kalman filtration] **2001i:60073**
**Ceschi, Roger** *see* **Bertein, Jean-Claude, 2001i:60073**
**Clark, J. M. C.** (*with* Ocone, Daniel; Coumarbatch, Cyril) Relative entropy and error bounds for filtering of Markov processes. (English summary) **2001m:60095**
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## 60G42 Martingales with discrete parameter

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**Ouknine, Y.** *see* **Coquet, François, 2001f:60062**
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## 60G46 Martingales and classical analysis

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**Bendikov, A. D.** (*with* Saloff-Coste, Laurent) Some problems in analysis and probability on infinite dimensional groups. (*see* **2001d:00027**)
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**Martínez, Teresa** (*with* Torrea Hernández, José Luis) Operator-valued martingale transforms. (English summary) **2001h:60076**
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## 60G48 Generalizations of martingales

**Cao, Xian Bing** *see* **Xiong, Ling Chun**
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**Emery, Michel** Martingales continues dans les variétés différentiables. [Continuous martingales in differentiable manifolds] **2001g:60104**
**Fei, Wei Yin** Decomposition of quasimartingale and hedging contingent claims in incomplete financial markets. (Chinese. English and Chinese summaries)
**Ivanoff, B. Gail** (*with* Merzbach, Ely) ★ Set-indexed martingales. (English summary) **2001g:60105**
**Koski, T.** (*with* Sundar, P.) Two applications of reproducing kernel Hilbert spaces in stochastic analysis. (English summary) **2001j:60085**
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— (*with* Wu, Wei Zhi) Some related problems of SVO supermartingales. (English and Chinese summaries) **2001k:60067**
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**Qiu, Yu Feng** A note of strong law of large numbers for $B$-valued uniform amarts. (Chinese. English and Chinese summaries)
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## 60G50 Sums of independent random variables; random walks

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**Csáki, Endre** (*with* Földes, Antónia; Révész, Pál; Shi, Zhan) On the excursions of two-dimensional random walk and Wiener process. (English summary) **2001e:60089**
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**Földes, Antónia** *see* **Csáki, Endre et al., 2001e:60089**
**Foss, S. G.** *see* **Borovkov, Aleksandr Alekseevich, 2001g:60107**
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**Fukai, Yasunari** Hitting distribution to a quadrant of two-dimensional random walk. **2001h:60083**
**Grimmett, Geoffrey R.** *see* **Bezuidenhout, Carol, 2001g:60106**
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— (*with* Spătaru, Aurel) Precise asymptotics in the law of the iterated logarithm. (English summary) **2001m:60100**
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**Lawler, Gregory F.** (*with* Puckette, Emily E.) The intersection exponent for simple random walk. (English summary) **2001m:60102**
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**Shi, Zhan** *see* **Hu, Yueyun, 2001b:60065; Révész, Pál, 2001d:60045** *and* **Csáki, Endre et al., 2001e:60089**
**Shimura, Michio** Exit probability of two-dimensional random walk from the quadrant. (English summary) **2001m:60104**
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## 60G52 Stable processes

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## 60G55 Point processes

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## 60G57 Random measures

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**Külske, Christof** (Non-) Gibbsianness and phase transitions in random lattice spin models. (English summary) **2001a:82042**
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**Zhang, Jin Ping** $n$-parameter $d$-dimension random walk ($\mathrm{RW}_n^d$). (Chinese. English and Chinese summaries) **2001e:60091**
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## 60G70 Extreme value theory; extremal processes

**Albin, J. M. P.** Extremes and upcrossing intensities for $P$-differentiable stationary processes. (English summary) **2001g:60124**
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**Azaïs, Jean-Marc** (*with* Cierco-Ayrolles, Christine; Croquette, Alain) Bounds and asymptotic expansions for the distribution of the maximum of a smooth stationary Gaussian process. (English and French summaries) **2001f:60055**
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**Borkovec, Milan** Extremal behavior of the autoregressive process with ARCH(1) errors. (English summary) **2001c:60085**
**Borovkov, K. A.** On records and related processes for sequences with trends. (English summary) **2001b:60071**
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**Cheng, Shi Hong** (*with* Peng, Liang; Qi, Yong Cheng) Ergodic behaviour of extreme values. (English summary) **2001e:60102**
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**Garralda Guillem, Ana Isabel** Structure de dépendance des lois de valeurs extrêmes bivariées. (English and French summaries) [Structure of dependence for bivariate extreme value distributions] **2001c:60086**
**Gomes, M. Ivette** (*with* de Haan, Laurens) Approximation by penultimate extreme value distributions. (English summary) **2001j:60100**
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**Hashorva, Enkelejd** (*with* Hüsler, Jürg) Extremes of Gaussian processes with maximal variance near the boundary points. (English summary) **2001m:60118**
**Ho, Hwai-Chung** (*with* McCormick, William P.) Asymptotic distribution of sum and maximum for Gaussian processes. (English summary) **2001b:60072**
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**Korolev, V. Yu.** The asymptotic behavior of extrema of compound Cox processes with nonzero means. (English summary) **2001b:60073**
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**Nasri-Roudsari, Dirk** (*with* Cramer, Erhard) On the convergence rates of extreme generalized order statistics. (English summary) **2001j:60101**
**Nevzorov, V. B.** *see* **Nevzorova, L. N., 2001g:60127**
**Nevzorova, L. N.** (*with* Nevzorov, V. B.) Ordered random variables. (English summary) **2001g:60127**
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**Pakes, Anthony G.** The number and sum of near-maxima for thin-tailed populations. (English summary) **2001m:60122**
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**Astrauskas, A.** Limit theorems for the maximal eigenvalues of the mean field Hamiltonian with random potential. (English and Lithuanian summaries) **2001c:60154**

**Bachmann, Markus** Limit theorems for the minimal position in a branching random walk with independent logconcave displacements. (English summary) **2001m:60189**

**Belbachir, Mohammadine** Lois limites pour les statistiques d'ordre dans le cas non identiquement distribué. (English and French summaries) [Limit distributions for order statistics in the not identically distributed case] **2001i:60031**

**Borovkov, Aleksandr Alekseevich** Estimates for the distribution of sums and maxima of sums of random variables when the Cramér condition is not satisfied. (Russian. Russian summary) **2001m:60058**

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**Capéraà, Philippe** (*with* Fougères, Anne-Laure; Genest, Christian) Bivariate distributions with given extreme value attractor. (English summary) **2001h:62095**

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**Cramer, Erhard** Asymptotic estimators of the sample size in a record model. (English summary) **2001b:60016**

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**Dębicki, Krzysztof** A note on LDP for supremum of Gaussian processes over infinite horizon. (English summary) **2001g:60055**

**Drees, Holger** Weighted approximations of tail processes for $\beta$-mixing random variables. (English summary) **2001k:60049**

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**Ennadifi, Gratiane** Invariance principles for paced record times and applications. (English summary) **2001g:60114**

**Fan, Ruzong** (*with* Lange, Kenneth) Asymptotic properties of the maximal subinterval of a Poisson process. (English summary) **2001j:60039**

**Ferreira, Helena** Limit distributions for point processes of exceedances of random levels. (English summary) **2001b:60048**

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**Frolov, A. N.** On the asymptotic behavior of increments of sums over runs of heads. (Russian. English and Russian summaries) **2001g:60063**

**Galambos, Janos** The classical extreme value model: mathematical results versus statistical inference. (English summary)

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**Hebbar, H. V.** (*with* Vadiraja, N.) Almost sure limit sets of sequences of maxima and moving maxima. (English summary) **2001c:60048**

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## 60Hxx Stochastic analysis [see also 58J65]

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**Valkeĭla, È.** *see* **Mishura, Yu. S., 2001k:60075**
**Vallois, Pierre** *see* **Russo, Francesco, 2001d:60061**
**Vives, Josep** *see* **León, Jorge A. et al., 2001i:60092** *and* **2001i:60093**
**Xie, Ying Chao** Representation of $\Phi^*$-valued martingale measures. (Chinese. English and Chinese summaries)
**Yablonskiĭ, O. L.** Classification of methods for the approximation of stochastic integrals in the algebra of generalized random processes. (Russian. English and Russian summaries)
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**Anshelevich, Michael** Free stochastic measures via noncrossing partitions. (English summary) **2001k:46102**
**Antonelli, P. L.** (*with* Zastawniak, Tomasz) ★ Fundamentals of Finslerian diffusion with applications. (English summary) **2001h:58048**
**Attal, Stéphane** (*with* Hudson, Robin L.) Series of iterated quantum stochastic integrals. (English summary) **2001k:81124**
**Ayache, Antoine** (*with* Lévy-Véhel, Jacques) Generalized multifractional Brownian motion: definition and preliminary results. (English summary) **2001d:60037**
**Biagini, Francesca** (*with* Guasoni, Paolo; Pratelli, Maurizio) Mean-variance hedging for stochastic volatility models. (English summary) **2001m:91078**
**Brzeźniak, Zdzisław** (*with* Peszat, Szymon) Maximal inequalities and exponential estimates for stochastic convolutions in Banach spaces. (English summary) **2001k:60084**
**Burkholder, Donald L.** Some extremal problems in martingale theory and harmonic analysis. **2001g:60098**
**Capitaine, Mireille** On the Onsager-Machlup functional for elliptic diffusion processes. (English summary) **2001c:60121**
**Chao, Tsung-Ming** (*with* Chou, Ching-Sung) On some inequalities of local times for Azéma martingales. (English summary) **2001c:60074**
**Chiang, Tzuu-Shuh** (*with* Chow, Yun Shyong; Lee, Yuh Jia) Exact formulas of certain functional integrals on Wiener spaces. (English summary) **2001e:60077**
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**Chou, Ching-Sung** *see* **Chao, Tsung-Ming, 2001c:60074**
**Chow, Yun Shyong** *see* **Chiang, Tzuu-Shuh et al., 2001e:60077**
**Coquio, Agnès** Why are there only three quantum noises? (English summary) **2001m:81145**
**Dasgupta, Amites** (*with* Kallianpur, Gopinath) Multiple fractional integrals. (English summary) **2001g:60084**
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**Dhersin, Jean-Stéphane** (*with* Serlet, Laurent) A stochastic calculus approach for the Brownian snake. (English summary) **2001f:60075**
**El-Bassiouny, Ahmed H.** On sojourn measures above a moving level for a Gaussian field with strong dependence. (Ukrainian. Ukrainian summary)
**El-Sayed, Ahmed M. A.** *see* **Hafez, Fathy M. et al.**
**El-Tawil, Magdy A.** *see* **Hafez, Fathy M. et al.**
**Emery, Michel** Martingales continues dans les variétés différentiables. [Continuous martingales in differentiable manifolds] **2001g:60104**
**Föllmer, Hans** (*with* Protter, Philip) On Itô's formula for multidimensional Brownian motion. (English summary) **2001b:60097**
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**González F., Ignacio J.** (*with* Urbina, Wilfredo O.) Continuous $s$-martingales as stochastic integrals with respect to the Brownian sheet. (English summary) **2001j:60084**
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**Hafez, Fathy M.** (*with* El-Sayed, Ahmed M. A.; El-Tawil, Magdy A.) On a stochastic fractional calculus. (English summary)
**Hu, Yao Zhong** Optimal times to observe in the Kalman-Bucy models. (English summary) **2001a:60067**
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**Imkeller, Peter** (*with* Weisz, Ferenc) Double points of the Brownian sheet in $\mathbf{R}^d$ and the geometry of the parameter space. (English summary) **2001i:60085**
**Jurek, Zbigniew J.** Three algebraic problems in probability theory. (English summary) (*see* **2001d:60004**)
**Kabanov, Yu. M.** (*with* Kramkov, D. O.) Asymptotic arbitrage in large financial markets. (English summary) **2001m:91090**
**Kachanovskiĭ, N. A.** Dual Appell-like systems and finite order spaces in non-Gaussian infinite dimensional analysis. (English summary) **2001g:46097**
**Kallianpur, Gopinath** *see* **Dasgupta, Amites, 2001c:91033; 2001g:60084** *and* **2001h:60061**
**Kohatsu Higa, Arturo** Weak approximations. A Malliavin calculus approach. (English summary) **2001f:60061**
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**Koski, T.** (*with* Sundar, P.) Two applications of reproducing kernel Hilbert spaces in stochastic analysis. (English summary) **2001j:60085**
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**Lavrent'ev, A. S.** *see* **Mishura, Yu. S., 2001f:60066** *and* **2001g:60147**
**Léandre, Rémi** Stochastic Wess-Zumino-Witten model for the measure of Kontsevitch. (English summary) **2001e:58049**
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**Lefebvre, Mario** On the integral of the sum of squared Ornstein-Uhlenbeck processes. (English summary) **2001b:60098**
**León, Jorge A.** (*with* Tudor, Constantin) Chaos decomposition of stochastic bilinear equations with drift in the first Poisson-Itô chaos. (English summary) **2001g:60144**
**Lévy-Véhel, Jacques** *see* **Ayache, Antoine, 2001d:60037**
**Lyons, T. J.** (*with* Zeitouni, Ofer) Conditional exponential moments for iterated Wiener integrals. (English summary) **2001g:60198**
**Mamporiya, B. I.** On the Ito formula in a Banach space. (English summary) **2001d:60007**
**Mancino, Maria Elvira** (*with* Pratelli, Luca) Skorohod integral for a particular class of nonadapted processes. (English summary) **2001g:60134**
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**Matsumoto, Hiroyuki[2]** (*with* Ueki, Naomasa) Applications of the theory of the metaplectic representation to quadratic Hamiltonians on the two-dimensional Euclidean space. (English summary) **2001b:58057**
**Mikosch, Thomas** ★ Elementary stochastic calculus—with finance in view. **2001c:60001**
**Mishura, Yu. S.** (*with* Lavrent'ev, A. S.) Stochastic differential equations in a Hilbert space: properties of solutions, limit theorems, and asymptotic expansions with respect to a small parameter. I. (Ukrainian. Ukrainian summary) **2001f:60066**
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**Molchan, G. M.** On the maximum of fractional Brownian motion. (Russian. Russian summary) **2001a:60027**
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**Nualart, David** (*with* Schoutens, Wim) Chaotic and predictable representations for Lévy processes. (English summary) **2001j:60090**
**Peszat, Szymon** *see* **Brzeźniak, Zdzisław, 2001k:60084**
**Pham, Huyên** (*with* Rheinländer, Thorsten; Schweizer, Martin) Mean-variance hedging for continuous processes: new proofs and examples. (English summary) **2001h:91049**
**Pipiras, Vladas** (*with* Taqqu, Murad S.) Convergence of weighted sums of random variables with long-range dependence. (English summary) **2001i:60042**
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**Privault, Nicolas** (*with* Wu, Jiang-Lun) Poisson stochastic integration in Hilbert spaces. (English summary) **2001g:81140**
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**Ruzmaikina, A. A.** Stieltjes integrals of Hölder continuous functions with applications to fractional Brownian motion. (English summary) **2001k:60058**
**Rydén, Tobias** (*with* Wiktorsson, Magnus) On the simulation of iterated Itô integrals. (English summary) **2001j:60115**
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**Schweizer, Martin** A projection result for semimartingales. (English summary) **2001e:60088**
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**Steele, J. Michael** ★ Stochastic calculus and financial applications. (English summary) **2001i:60080**
**Stoica, Gheorghe** Stochastic integral and martingale representation in vector lattices. (English summary)
**Sundar, P.** *see* **Koski, T., 2001j:60085**
**Taniguchi, Setsuo** Stochastic oscillatory integrals with quadratic phase function and Jacobi equations. (English summary) **2001c:60092**
**Taqqu, Murad S.** *see* **Pipiras, Vladas, 2001i:60042**
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**Tudor, Constantin** *see* **León, Jorge A., 2001g:60144**
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**Wasilkowski, Grzegorz W.** (*with* Woźniakowski, Henryk) On the complexity of stochastic integration. (English summary) **2001g:65183**
**Weisz, Ferenc** *see* **Imkeller, Peter, 2001i:60085**
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**Wiktorsson, Magnus** *see* **Rydén, Tobias, 2001j:60115**
**Williams, David** *see* **Rogers, L. C. G., 2001g:60188** *and* **2001g:60189**
**Woźniakowski, Henryk** *see* **Wasilkowski, Grzegorz W., 2001g:65183**
**Wu, Jiang-Lun** *see* **Privault, Nicolas, 2001g:81140**
**Zakai, Moshe** *see* **Üstünel, A. Süleyman, 2001g:60137**
**Zastawniak, Tomasz** *see* **Antonelli, P. L., 2001h:58048**
**Zeitouni, Ofer** *see* **Lyons, T. J., 2001g:60198**

## 60H07 Stochastic calculus of variations and the Malliavin calculus

**Aida, Shigeki** Precise Gaussian lower bounds on heat kernels. **2001j:60104**
**Airault, Hélène** (*with* Malliavin, Paul; Ren, Jiagang) Smoothness of stopping times of diffusion processes. (English summary) **2001c:60089**
— (*with* Ren, Jiagang; Zhang, Xi-cheng) Smoothness of local times of semimartingales. (English and French summaries) **2001a:60063**
— (*with* Zhang, Xi-cheng) Smoothness of indicator functions of some sets in Wiener spaces. (English summary) **2001e:60106**
**Al'beverio, S.** (*with* Röckle, Haio; Steblovskaya, V. R.) Asymptotic expansions for Ornstein-Uhlenbeck semigroups perturbed by potentials over Banach spaces. (English summary) **2001a:60064**
**Ané, Cécile** (*with* Ledoux, Michel) On logarithmic Sobolev inequalities for continuous time random walks on graphs. (English summary) **2001i:60094**
**Coutin, Laure** (*with* Decreusefond, L.) Abstract nonlinear filtering theory in the presence of fractional Brownian motion. (English summary) **2001h:60102**
**Cruzeiro, Ana-Bela** (*with* Malliavin, Paul) Riesz transforms, commutators, and stochastic integrals. **2001d:60062**
— (*with* Malliavin, Paul) Frame bundle of Riemannian path space and Ricci tensor in adapted differential geometry. (English summary) **2001h:60103**
**Da Prato, Giuseppe** Non-gradient perturbations of Ornstein-Uhlenbeck semigroups. **2001g:60130**
**Decreusefond, L.** *see* **Coutin, Laure, 2001h:60102**
**Denis, Laurent** (*with* Grorud, Axel; Pontier, Monique) Formes de Dirichlet sur un espace de Wiener-Poisson. Application au grossissement de filtration. (English and French summaries) [Dirichlet forms on a Wiener-Poisson space. Application to filtration enlargement] **2001c:60090**
**Durogovtsev, Andrei A.** Formal stochastic calculus and admissible transformations. (English summary) **2001e:60107**
**Fang, Shizan** On the Ornstein-Uhlenbeck process. (English summary) **2001f:60060**
— Integration by parts formula and logarithmic Sobolev inequality on the path space over loop groups. (English summary) **2001a:60065**
— Integration by parts for heat measures over loop groups. (English summary) **2001g:60131**
**Feyel, Denis** (*with* de La Pradelle, Arnaud) The abstract Riemannian path space. (English summary) **2001i:60095**
**Fournier, Nicolas** Existence and regularity study for two-dimensional Kac equation without cutoff by a probabilistic approach. (English summary) **2001j:60105**
— Malliavin calculus for parabolic SPDEs with jumps. (English summary) **2001e:60108**
**Gordina, Maria** Heat kernel analysis and Cameron-Martin subgroup for infinite dimensional groups. (English summary) **2001g:60132**
**Graham, Carl** (*with* Méléard, Sylvie) Existence and regularity of a solution of a Kac equation without cutoff using the stochastic calculus of variations. (English summary) **2001c:60091**
**Grorud, Axel** *see* **Denis, Laurent et al., 2001c:60090**
**Hirsch, Francis** Lipschitz functions and fractional Sobolev spaces. (English summary) **2001g:60133**
**Inahama, Yuzuru** Logarithmic Sobolev inequality on free loop groups for heat kernel measures associated with the general Sobolev spaces. (English summary) **2001k:60077**
**Kohatsu Higa, Arturo** Weak approximations. A Malliavin calculus approach. (English summary) **2001f:60061**
**de La Pradelle, Arnaud** *see* **Feyel, Denis, 2001i:60095**
**Ledoux, Michel** *see* **Ané, Cécile, 2001i:60094**
**León, Jorge A.** (*with* Nualart, David) Anticipating integral equations. (English summary) **2001j:60106**
**Malliavin, Paul** *see* **Airault, Hélène et al., 2001c:60089**; **Cruzeiro, Ana-Bela, 2001d:60062** *and* **2001h:60103**
**Mancino, Maria Elvira** (*with* Pratelli, Luca) Skorohod integral for a particular class of nonadapted processes. (English summary) **2001g:60134**
**Méléard, Sylvie** *see* **Graham, Carl, 2001c:60091**
**Norin, N. V.** Commutation relations for mixtures of Gaussian measures. (English summary) **2001e:60109**
**Nualart, David** *see* **León, Jorge A., 2001j:60106**
**N'zi, Modeste** (*with* Ouknine, Y.) Backward stochastic differential equations with jumps involving a subdifferential operator. (English summary) **2001j:60107**
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**Pontier, Monique** *see* **Denis, Laurent et al., 2001c:60090**
**Pratelli, Luca** *see* **Mancino, Maria Elvira, 2001g:60134**
**Ren, Jiagang** *see* **Airault, Hélène et al., 2001a:60063** *and* **2001c:60089**
**Ren, Zheng Min** Stochastic calculus of variations for a class of diffusion processes. (Chinese. English and Chinese summaries)
**Röckle, Haio** *see* **Al'beverio, S. et al., 2001a:60064**
**Steblovskaya, V. R.** *see* **Al'beverio, S. et al., 2001a:60064**
**Taniguchi, Setsuo** Stochastic oscillatory integrals with quadratic phase function and Jacobi equations. (English summary) **2001c:60092**
— Lévy's stochastic area and the principle of stationary phase. (English summary) **2001g:60135**
**Tindel, Samy** SPDEs with pseudodifferential generators: the existence of a density. (English summary) **2001g:60136**
**Ueki, Naomasa** Asymptotic expansion of stochastic oscillatory integrals with rotation invariance. (English and French summaries) **2001c:60093**
**Üstünel, A. Süleyman** (*with* Zakai, Moshe) ★ Transformation of measure on Wiener space. (English summary) **2001g:60137**
— (*with* Zakai, Moshe) Embedding the abstract Wiener space in a probability space. (English summary) **2001c:60094**
**Yun, Yong Sik** On existence of solutions for differential equations on the Sobolev space. (English summary) **2001g:60138**
**Zakai, Moshe** *see* **Üstünel, A. Süleyman, 2001c:60094** *and* **2001g:60137**
**Zhang, Xi-cheng** *see* **Airault, Hélène et al., 2001a:60063** *and* **2001c:60106**

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**Aida, Shigeki** Stochastic analysis on loop spaces [translation of Sūgaku **50** (1998), no. 3, 265–281; MR 99i:58155]. (*see* **2001e:00032**)
**Alòs, E.** (*with* Nualart, David; Viens, Frederi) Stochastic heat equation with white-noise drift. (English and French summaries) **2001c:60099**
**Antonyuk, A. Val.** (*with* Antonyuk, A. Vikt.) ★ Nonlinear estimates on regularity of non-Lipschitz diffusions.
— (*with* Antonyuk, A. Vikt.) $C^\infty$ dependence on initial data. (English summary)
— (*with* Antonyuk, A. Vikt.) Wiener space differentiability. (English summary)
— (*with* Antonyuk, A. Vikt.) Applications to the $C^\infty$ smoothing of associated Feller semigroups. (English summary)
**Antonyuk, A. Vikt.** *see* **Antonyuk, A. Val.**
**Berkaoui, A.** (*with* Ouknine, Y.) Régularité besov des trajectoires du processus intégral de Skorohod. (English summary) [Besov regularity of the trajectories of the Skorokhod integral process] **2001d:60055**
**Bonaccorsi, Stefano** (*with* Fuhrman, Marco) Regularity results for infinite dimensional diffusions. A Malliavin calculus approach. (English and Italian summaries) **2001g:60139**
**Budhiraja, Amarjit S.** (*with* Dupuis, Paul) Representations for functionals of Hilbert space valued diffusions. (English summary) **2001c:60120**
**Dupuis, Paul** *see* **Budhiraja, Amarjit S., 2001c:60120**
**Elworthy, K. David** (*with* Le Jan, Y.; Li, Xue-Mei[2]) ★ On the geometry of diffusion operators and stochastic flows. **2001f:58072**
— Geometric aspects of stochastic analysis. **2001k:60110**
**de Faria, Margarida** (*with* Oliveira, Maria João; Streit, Ludwig) A generalized Clark-Ocone formula. (English summary) **2001g:60159**
**Ferrante, Marco** (*with* Rovira, Carles; Sanz-Solé, Marta) Stochastic delay equations with hereditary drift: estimates of the density. (English summary) **2001i:60108**
**Fournier, Nicolas** Strict positivity of a solution to a one-dimensional Kac equation without cutoff. (English summary) **2001g:82075**
**Fuhrman, Marco** *see* **Bonaccorsi, Stefano, 2001g:60139**
**Gobet, Emmanuel** Weak approximation of killed diffusion using Euler schemes. (English summary) **2001f:65012**
**Gross, Leonard** Hypercontractivity over complex manifolds. **2001c:58034**
**Hara, Keisuke** A stochastic variational condition for the Maxwell connections. (English summary) **2001e:58048**
**Hino, Masanori** Exponential decay of positivity preserving semigroups on $L^p$. **2001k:60109**
**Hu, Yi Jun** *see* **Liu, Jing Jun, 2001d:60024**
**Kondrat'ev, Yu. G.** (*with* Silva, José Luís; Streit, Ludwig) Differential geometry on compound Poisson space. (English summary) **2001j:60094**
**Léandre, Rémi** Logarithmic Sobolev inequalities for differentiable paths. **2001a:58052**
**Le Jan, Y.** *see* **Elworthy, K. David et al., 2001f:58072**
**León, Jorge A.** (*with* Tudor, Constantin) Chaos decomposition of stochastic bilinear equations with drift in the first Poisson-Itô chaos. (English summary) **2001g:60144**
**Li, Xiang Dong** Existence and uniqueness of geodesics on path spaces. (English summary) **2001f:58074**
**Li, Xue-Mei[2]** *see* **Elworthy, K. David et al., 2001f:58072**
**Liu, Jing Jun** (*with* Hu, Yi Jun) A large deviation principle for the capacity of small perturbations of stochastic evolution equations. (Chinese. Chinese summary) **2001d:60024**
**Long, Hongwei** Necessary and sufficient conditions for the symmetrizability of differential operators over infinite dimensional state spaces. (English summary) **2001e:28023**
**Millet, Annie** (*with* Sanz-Solé, Marta) A stochastic wave equation in two space dimension: smoothness of the law. (English summary) **2001e:60130**
— (*with* Morien, Pierre-Luc) On a stochastic wave equation in two space dimensions: regularity of the solution and its density. (English summary) **2001a:60075**
**Mordecki, Ernesto** Necessary conditions for stable convergence of semimartingales. (Russian summary) **2001b:60049**
**Morien, Pierre-Luc** On the density for the solution of a Burgers-type SPDE. (English and French summaries) **2001a:60076**
— *see also* **Millet, Annie, 2001a:60075**
**Nualart, David** (*with* Thieullen, Michèle) Skorohod stochastic differential equations on random intervals. (English summary) **2001e:60104**
— (*with* Viens, Frederi) Evolution equation of a stochastic semigroup with white-noise drift. (English summary) **2001c:60103**
— *see also* **Alòs, E. et al., 2001c:60099**
**Oliveira, Maria João** *see* **de Faria, Margarida et al., 2001g:60159**
**Ouknine, Y.** *see* **Berkaoui, A., 2001d:60055**
**Picard, Jean** Smoothness of harmonic maps for hypoelliptic diffusions. (English summary) **2001i:58076**
— (*with* Savona, Catherine) Smoothness of harmonic functions for processes with jumps. (English summary) **2001c:60134**
**Privault, Nicolas** Connection, parallel transport, curvature and energy identities on spaces of configurations. (English and French summaries) **2001i:58077**
**Röckner, Michael** (*with* Schied, Alexander) Rademacher's theorem on configuration spaces and applications. (English summary) **2001b:58058**
**Rovira, Carles** *see* **Ferrante, Marco et al., 2001i:60108**
**Saavedra, Eugenio** On topological properties of Skorokhod's integral. (English summary) **2001b:60075**
**Sanz-Solé, Marta** *see* **Millet, Annie, 2001e:60130** *and* **Ferrante, Marco et al., 2001i:60108**
**Savona, Catherine** *see* **Picard, Jean, 2001c:60134**
**Schied, Alexander** *see* **Röckner, Michael, 2001b:58058**
**Silva, José Luís** *see* **Kondrat'ev, Yu. G. et al., 2001j:60094**
**Srimurthy, Vikram K.** On the equivalence of measures on loop space. (English summary) **2001m:58022**
**Streit, Ludwig** *see* **de Faria, Margarida et al., 2001g:60159** *and* **Kondrat'ev, Yu. G. et al., 2001j:60094**
**Thieullen, Michèle** *see* **Nualart, David, 2001e:60104**
**Tudor, Constantin** *see* **León, Jorge A., 2001g:60144**
**Viens, Frederi** *see* **Alòs, E. et al., 2001c:60099** *and* **Nualart, David, 2001c:60103**
**Yoshida, Minoru W.** Non-linear continuous maps on abstract Wiener spaces defined on space of tempered distributions. (English summary) **2001j:60103**
**Zhang, Tusheng** On the small time large deviations of diffusion processes on configuration spaces. (English summary) **2001k:60041**
**Zhang, Xi-cheng** Smoothness of renormalized self-intersection local times of planar Brownian motion. (English and Chinese summaries) **2001m:60174**

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**Nonlinear estimates on regularity of non-Lipschitz diffusions** *see* **Antonyuk, A. Val.**

## 60H10 Stochastic ordinary differential equations [see also 34F05]

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**Molchanov, Stanislav Alekseevich** *see* **Gärtner, Jürgen, 2001h:60118**
**Oliveira, Maria João** *see* **de Faria, Margarida et al., 2001g:60159**
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**Spektorskiĭ, I. Ya.** Stochastic equations in the space of formal series: convergence of solution series. (English summary) **2001b:60084**
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**Aizenman, Michael** (*with* Schenker, Jeffrey H.; Friedrich, Roland M.; Hundertmark, Dirk) Constructive fractional-moment criteria for localization in random operators. (English summary) **2001j:82053**

**Bakhtin, V. I.** Cramér asymptotics in a system with slow motions and Markov fast motions. (Russian. Russian summary) **2001f:60025**
**Beg, Ismat** (*with* Shahzad, Naseer) An application of a random fixed point theorem to random best approximation. (English summary) **2001c:47064**
**Boutet de Monvel-Berthier, Anne-Marie** (*with* Khorunzhiĭ, A. M.) Asymptotic distribution of smoothed eigenvalue density. II. Wigner random matrices. (English summary) **2001g:82055**
**Cho, Yeol Je** (*with* Huang, Nan Jing; Kang, Shin Min) Random generalized set-valued strongly nonlinear implicit quasi-variational inequalities. (English summary)
— *see also* **Jung, Jong Soo et al., 2001g:47107**
**Duan, Wu-duo** *see* **Zhu, Chuan Xi, 2001b:47107**
**Embrechts, Paul** (*with* Walk, Harro) Recursive estimation of distributional fix-points. (English summary) **2001c:62085**
**Erraoui, M.** (*with* Ouknine, Y.; Sbi, A.) Solution and reflected solutions of FSDEs with generalized Wiener functional approach. (English summary) **2001j:60109**
**Fischer, Werner** (*with* Leschke, Hajo; Müller, Peter[4]) Spectral localization by Gaussian random potentials in multi-dimensional continuous space. (English summary) **2001m:82047**
**Friedrich, Roland M.** *see* **Aizenman, Michael et al., 2001j:82053**
**Girko, V. L.** Strong law and canonical equation for normalized spectral functions of non self adjoint random Jacobi matrices. (English summary) **2001h:60047**
**Huang, Nan Jing** *see* **Cho, Yeol Je et al.**
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**Jung, Jong Soo** (*with* Cho, Yeol Je; Kang, Shin Min; Lee, Byung Soo; Thakur, Balwant Singh) Random fixed point theorems for a certain class of mappings in Banach spaces. (English summary) **2001g:47107**
**Kang, Shin Min** *see* **Jung, Jong Soo et al., 2001g:47107** *and* **Cho, Yeol Je et al.**
**Khorunzhiĭ, A. M.** *see* **Boutet de Monvel-Berthier, Anne-Marie, 2001g:82055**
**Lee, Byung Soo** *see* **Jung, Jong Soo et al., 2001g:47107**
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**Levakov, A. A.** Existence theorems for strong solutions of stochastic differential equations and inclusions. (Russian. Russian summary) **2001a:60078**
**Müller, Peter[4]** *see* **Fischer, Werner et al., 2001m:82047**
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**Ramanan, Kavita** (*with* Zeitouni, Ofer) The quasi-stationary distribution for small random perturbations of certain one-dimensional maps. (English summary) **2001c:60109**
**Ruffino, Paulo R. C.** A sampling theorem for rotation numbers of linear processes in $\mathbf{R}^2$. (English summary) **2001e:37009**
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**Svishchuk, A. V.** ★ Random evolutions and their applications. (English summary) **2001m:60204**
**Thakur, Balwant Singh** *see* **Jung, Jong Soo et al., 2001g:47107**
**Ueki, Naomasa** Simple examples of Lifschitz tails in Gaussian random magnetic fields. (English and French summaries) **2001m:82050**
**Walk, Harro** *see* **Embrechts, Paul, 2001c:62085**
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**Zhu, Chuan Xi** (*with* Duan, Wu-duo) Acute angle principle and its application in random functional analysis. (English and Chinese summaries) **2001b:47107**

## 60H30 Applications of stochastic analysis (to PDE, etc.)

**Athreya, Siva** Monotonicity property for a class of semilinear partial differential equations. (English summary) **2001i:60106**
**Borell, Christer** Diffusion equations and geometric inequalities. (English summary) **2001d:60070**
**Brooks, Elizabeth A.** Probabilistic methods for a linear reaction-hyperbolic system with constant coefficients. (English summary) **2001h:60119**
**Dorogovtsev, A. Ya.** Stability of stationary solutions. (Russian) **2001g:60161**
**Pardoux, Étienne** Quelques méthodes probabilistes pour les équations aux dérivées partielles. (English and French summaries) [Some probabilistic methods for partial differential equations] **2001c:60105**
**Warren, Jonathan** (*with* Williams, David) Probabilistic study of a dynamical system. **2001k:60089**
**Williams, David** *see* **Warren, Jonathan, 2001k:60089**

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**Alvarez, Luis H. R.** Singular stochastic control, linear diffusions, and optimal stopping: a class of solvable problems. (English summary) **2001m:93135**
**Bally, Vlad** (*with* Matoussi, A.) Weak solutions for SPDEs and backward doubly stochastic differential equations. (English summary) **2001m:60142**
**Bauer, Robert Otto** Yang-Mills fields and stochastic parallel transport in small geodesic balls. (English summary) **2001i:58072**
**Beghin, Luisa** (*with* Hochberg, Kenneth J.; Orsingher, Enzo) Conditional maximal distributions of processes related to higher-order heat-type equations. (English summary) **2001h:60092**
**Betz, Cristina** Probabilistic approach to an eigenvalue problem for the Laplace-Beltrami operator. (English and Spanish summaries) **2001i:34143**
**Borkovec, Milan** (*with* Klüppelberg, Claudia) Erratum: "Extremal behavior of diffusion models in finance" [Extremes **1** (1998), no. 1, 47–80; MR 99m:60130]. **Bouchard, Bruno** (*with* Touzi, Nizar) Explicit solution to the multivariate super-replication problem under transaction costs. (English summary) **2001i:91055**
**Briand, Philippe** (*with* Coquet, François; Hu, Ying; Mémin, Jean; Peng, Shige) A converse comparison theorem for BSDEs and related properties of $g$-expectation. (English summary) **2001h:60105**
— (*with* Carmona, René) BSDEs with polynomial growth generators. (English summary) **2001j:60108**
**Buckdahn, Rainer** (*with* Peng, Shige) Ergodic backward SDE and associated PDE. (English summary) **2001m:60129**
— (*with* Quincampoix, Marc; Răşcanu, Aurel) Viability property for a backward stochastic differential equation and applications to partial differential equations. (English summary) **2001f:49035**
**Cadenillas, Abel** (*with* Haussmann, Ulrich G.) The stochastic maximum principle for a singular control problem. (English summary) **2001e:49048**
**Carmona, René** *see* **Briand, Philippe, 2001j:60108**
**Chueshov, Igor D.** (*with* Vuillermot, Pierre A.) Long-time behavior of solutions to a class of stochastic parabolic equations with homogeneous white noise: Itô's case. (English summary) **2001e:60127**
**Coquet, François** *see* **Briand, Philippe et al., 2001h:60105**
**Cruzeiro, Ana-Bela** (*with* Malliavin, Paul) Riesz transforms, commutators, and stochastic integrals. **2001d:60062**
— (*with* Wu, Li Ming[1]; Zambrini, Jean-Claude) Bernstein processes associated with a Markov process. (English summary) **2001h:60135**
**Cvitanić, Jakša** Minimizing expected loss of hedging in incomplete and constrained markets. (English summary) **2001g:91059**
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**Deaconu, Madalina** (*with* Gradinaru, Mihai; Roche, Jean Rodolphe) Sojourn time of some reflected Brownian motion in the unit disk. (English summary) **2001h:60143**
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**Del Moral, Pierre** (*with* Miclo, Laurent) A Moran particle system approximation of Feynman-Kac formulae. (English summary) **2001g:60242**
**Drumond, C.** (*with* de Faria, Margarida; Streit, Ludwig) The square of self intersection local time of Brownian motion. **2001m:60088**
**Duncan, Tyrone E.** (*with* Hu, Yao Zhong; Pasik-Duncan, Bozenna) Stochastic calculus for fractional Brownian motion. I. Theory. (English summary) **2001g:60129**
**Fang, Shizan** Integration by parts formula and logarithmic Sobolev inequality on the path space over loop groups. (English summary) **2001a:60065**
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**Fischer, Paul A.** (*with* Platen, Eckhard; Runggaldier, Wolfgang J.) Risk minimizing hedging strategies under partial observation. (English summary) **2001b:91044**
**Föllmer, Hans** (*with* Wu, Ching-Tang; Yor, Marc) Canonical decomposition of linear transformations of two independent Brownian motions motivated by models of insider trading. (English summary) **2001b:60058**
**Gradinaru, Mihai** *see* **Deaconu, Madalina et al., 2001h:60143**
**Graham, Carl** (*with* Méléard, Sylvie) Existence and regularity of a solution of a Kac equation without cutoff using the stochastic calculus of variations. (English summary) **2001c:60091**
**Grillo, Gabriele** Off-diagonal bounds of non-Gaussian type for the Dirichlet heat kernel. (English summary) **2001j:58044**
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**Haussmann, Ulrich G.** *see* **Cadenillas, Abel, 2001e:49048**
**Hochberg, Kenneth J.** *see* **Beghin, Luisa et al., 2001h:60092**
**Hu, Yao Zhong** *see* **Duncan, Tyrone E. et al., 2001g:60129**
**Hu, Ying** On the solution of forward-backward SDEs with monotone and continuous coefficients. **2001h:60109**
— (*with* Yong, Jiong Min) Forward-backward stochastic differential equations with nonsmooth coefficients. (English summary) **2001c:60096**
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**Jourdain, Benjamin** Probabilistic approximation for a porous medium equation. (English summary) **2001j:60187**
**Karatzas, Ioannis** (*with* Kou, S. G.) Hedging American contingent claims with constrained portfolios. (English summary) **2001i:91063**
**Kelly, Brian P.** A dimension-free weak-type estimate for operators on UMD-valued functions. (English summary) **2001i:43005**
**Klüppelberg, Claudia** *see* **Borkovec, Milan**
**Kobylanski, Magdalena** Backward stochastic differential equations and partial differential equations with quadratic growth. (English summary) **2001h:60110**
**Kou, S. G.** *see* **Karatzas, Ioannis, 2001i:91063**
**Kuznetsov, S. E.** On uniqueness of a solution of $Lu = u^\alpha$ with given trace. (English summary) **2001i:35122**
**Landén, Camilla** Bond pricing in a hidden Markov model of the short rate. (English summary) **2001e:91091**
**Leblanc, Boris** (*with* Yor, Marc) Lévy processes in finance: a remedy to the non-stationarity of continuous martingales. (English summary) **2001j:91074**
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**Marchetti, C.** Asymptotic expansion in nonlinear filtering with homogenization. (English summary) **2001f:60065**
**Matoussi, A.** *see* **Bally, Vlad, 2001m:60142**
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**Mémin, Jean** *see* **Briand, Philippe et al., 2001h:60105**
**Miclo, Laurent** *see* **Del Moral, Pierre, 2001g:60242**
**Orsingher, Enzo** *see* **Beghin, Luisa et al., 2001h:60092**
**Pasik-Duncan, Bozenna** *see* **Duncan, Tyrone E. et al., 2001g:60129**
**Pedersen, Jesper Lund** Discounted optimal stopping problems for the maximum process. (English summary) **2001m:60099**
**Peng, Shige** Monotonic limit theorem of BSDE and nonlinear decomposition theorem of Doob-Meyer's type. (English summary) **2001k:60082**
— *see also* **Briand, Philippe et al., 2001h:60105** *and* **Buckdahn, Rainer, 2001m:60129**
**Platen, Eckhard** *see* **Fischer, Paul A. et al., 2001b:91044**
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**Quincampoix, Marc** *see* **Buckdahn, Rainer et al., 2001f:49035**
**Rapoport Campodónico, Diego Lucio** Closed form integration of the Navier-Stokes equations with stochastic differential geometry. (English summary) **2001k:58077**
**Răşcanu, Aurel** *see* **Buckdahn, Rainer et al., 2001f:49035**
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**Streit, Ludwig** *see* **Drumond, C. et al., 2001m:60088**
**Touzi, Nizar** Optimal insurance demand under marked point processes shocks. (English summary) **2001f:91037**
— *see also* **Bouchard, Bruno, 2001i:91055**
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**Wang, Hao[5]** Valuation of a barrier European option on jump-diffusion underlying stock price. (English summary) **2001d:91106**
**Wu, Ching-Tang** *see* **Föllmer, Hans et al., 2001b:60058**
**Wu, Li Ming[1]** *see* **Cruzeiro, Ana-Bela et al., 2001h:60135**
**Yong, Jiong Min** *see* **Hu, Ying, 2001c:60096**
**Yoo, Hyek** On $L_p$-theory of stochastic partial differential equations of divergence form with continuous coefficients. (English summary) **2001e:60133**
**Yor, Marc** *see* **Föllmer, Hans et al., 2001b:60058** *and* **Leblanc, Boris, 2001j:91074**
**Zabczyk, Jerzy** Parabolic equations on Hilbert spaces. **2001b:35289**
**Zambrini, Jean-Claude** *see* **Cruzeiro, Ana-Bela et al., 2001h:60135**
**Zhang, Xi-cheng** *see* **Airault, Hélène, 2001e:60106**

## 60H35 Computational methods for stochastic equations [see also 65C30]

**Buckwar, Evelyn** Introduction to the numerical analysis of stochastic delay differential equations. (English summary) **2001k:60090**
**Poloskov, I. E.** The generalized integrator method and its application in the analysis of linear stochastic systems with multiplicative perturbations. (Russian. Russian summary) (*see* **2001d:00016**)
**Roynette, Bernard** Approximation en norme Besov de la solution d'une équation différentielle stochastique. (English summary) [Approximation in Besov norm of the solution of a stochastic differential equation] **2001e:60135**
**Talay, Denis** (*with* Vaillant, Olivier) Vitesse de convergence d'une méthode particulaire stochastique avec poids d'interaction aléatoires. (English and French summaries) [Convergence rate of a stochastic particle method with random interaction weights] **2001c:60106**
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**Baker, Christopher T. H.** (*with* Buckwar, Evelyn) Continuous Θ-methods for the stochastic pantograph equation. (English summary) **2001m:65021**
**Brugnano, L.** (*with* Burrage, Kevin; Burrage, Pamela) Adams-type methods for the numerical solution of stochastic ordinary differential equations. (English summary) **2001e:65017**
**Buckwar, Evelyn** *see* **Baker, Christopher T. H., 2001m:65021**
**Burrage, Kevin** *see* **Brugnano, L. et al., 2001e:65017**
**Burrage, Pamela** *see* **Brugnano, L. et al., 2001e:65017**
**Del Moral, Pierre** (*with* Miclo, Laurent) A Moran particle system approximation of Feynman-Kac formulae. (English summary) **2001g:60242**
**Fierro, Raúl** (*with* Torres, Soledad) The Euler scheme for Hilbert space valued stochastic differential equations. (English summary) **2001m:65018**
**Hausenblas, Erika** A numerical scheme using excursion theory for simulating stochastic differential equations with reflection and local time at a boundary. (English summary) **2001g:60143**
— Monte Carlo simulation of killed diffusion. (English summary) **2001k:60078**
**Jansons, Kalvis M.** (*with* Lythe, G. D.) Efficient numerical solution of stochastic differential equations using exponential timestepping. (English summary) **2001m:65020**
**Kanagawa, Shūya** (*with* Saisho, Y.) Strong approximation of reflecting Brownian motion using penalty method and its application to computer simulation. (English summary) **2001h:60136**
— (*with* Ogawa, Shigeyoshi) Numerical solutions of stochastic differential equations. II. Applications. (Japanese)
**Küchler, Uwe** (*with* Platen, Eckhard) Strong discrete time approximation of stochastic differential equations with time delay. (English summary) **2001j:60111**
**Kurtz, Thomas G.** (*with* Xiong, Jie) Numerical solutions for a class of SPDEs with application to filtering. (English summary) **2001h:65013**
**Li, Chunwah** *see* **Liu, Xiao Qing[2], 2001e:65019**
**Liu, Xiao Qing[2]** (*with* Li, Chunwah) Weak approximation and extrapolations of stochastic differential equations with jumps. (English summary) **2001e:65019**
**Lythe, G. D.** *see* **Jansons, Kalvis M., 2001m:65020**
**Mao, Xuerong** *see* **Marion, Glenn et al., 2001k:65018**
**Marion, Glenn** (*with* Mao, Xuerong; Renshaw, Eric) Convergence of the Euler scheme for a class of stochastic differential equation. (English summary) **2001k:65018**
**Miclo, Laurent** *see* **Del Moral, Pierre, 2001g:60242**
**Mitsui, Taketomo** Computational issues in numerical solution of stochastic differential equations. (English summary) (*see* **2001b:65005**)
**Ogawa, Shigeyoshi** Numerical solutions to stochastic differential equations. (Japanese. Japanese summary)
— *see also* **Kanagawa, Shūya**
**Platen, Eckhard** *see* **Küchler, Uwe, 2001j:60111**
**Renshaw, Eric** *see* **Marion, Glenn et al., 2001k:65018**
**Saisho, Y.** *see* **Kanagawa, Shūya, 2001h:60136**
**Theting, Thomas Gorm** Solving Wick-stochastic boundary value problems using a finite element method. (English summary)
**Torres, Soledad** *see* **Fierro, Raúl, 2001m:65018**
**Xiong, Jie** *see* **Kurtz, Thomas G., 2001h:65013**

## 60H40 White noise theory

**Aase, Knut** (*with* Øksendal, Bernt; Privault, Nicolas; Uboe, Jan) White noise generalizations of the Clark-Haussmann-Ocone theorem with application to mathematical finance. (English summary) **2001j:60126**
**Asai, Nobuhiro** A note on general setting of white noise triple and positive generalized functions. (*see* **2001e:60003**)
— (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Feynman integrals associated with Albeverio-Høegh-Krohn and Laplace transform potentials. (English summary) **2001k:60091**
**Berezanskiĭ, Yuriĭ Makarovich** (*with* Kondrat'ev, Yu. G.) Biorthogonal systems in hypergroups: an extension of non-Gaussian analysis. (English summary) **2001h:60120**
**Chan, Terence** Scaling limits of Wick ordered KPZ equation. (English summary) **2001f:60072**
**Chung, Dong Myung** (*with* Ji, Un Cig) Multi-parameter transformation groups on white noise functionals. (English summary) **2001m:60151**
**Grothaus, Martin** (*with* Streit, Ludwig) On regular generalized functions in white noise analysis and their applications. (English summary) **2001e:60136**
**Hida, Takeyuki** White noise approach to Feynman integrals. (English summary) **2001m:60152**
**Ji, Un Cig** Integral kernel operators on regular generalized white noise functions. (English summary) **2001i:60107**
— Cauchy problems in white noise analysis and an application to finite dimensional PDEs. II. (*see* **2001e:60003**)
— *see also* **Chung, Dong Myung, 2001m:60151**
**Kanagawa, Shūya** Sample path large deviations related to Euler-Maruyama approximation solutions to SDE. (*see* **2001d:00053**)
**Kim, Jong Uhn** On a stochastic hyperbolic system in linear elasticity. (English summary) **2001g:60162**
**Kondrat'ev, Yu. G.** (*with* Silva, José Luis; Streit, Ludwig) Generalized Appell systems. (English summary) **2001d:60071**
— *see also* **Berezanskiĭ, Yuriĭ Makarovich, 2001h:60120**
**Kubo, Izumi** (*with* Kuo, Hui-Hsiung) Simple proof of Hida distribution characterization theorem. (English summary) **2001d:60072**
— Entire functionals and generalized functionals in white noise analysis. (*see* **2001d:00027**)
— *see also* **Asai, Nobuhiro et al., 2001k:60091**
**Kuo, Hui-Hsiung** *see* **Kubo, Izumi, 2001d:60072** *and* **Asai, Nobuhiro et al., 2001k:60091**
**Lee, Yuh Jia** (*with* Shih, Hsin-Hung) The Segal-Bargmann transform for Lévy functionals. (English summary) **2001c:60107**
**Luo, Shun-Long** (*with* Yan, Jia-An) Gaussian kernel operators on white noise functional spaces. (English summary) **2001m:60153**
**Obata, Nobuaki** A note on Hida's whiskers and complex white noise. **2001d:60073**
**Øksendal, Bernt** *see* **Aase, Knut et al., 2001j:60126**
**Privault, Nicolas** *see* **Aase, Knut et al., 2001j:60126**
**Shih, Hsin-Hung** *see* **Lee, Yuh Jia, 2001c:60107**
**Silva, José Luis** *see* **Kondrat'ev, Yu. G. et al., 2001d:60071**
**Stan, Aurel** Paley-Wiener thoerem for white noise analysis. (English summary) **2001e:60137**
**Streit, Ludwig** *see* **Kondrat'ev, Yu. G. et al., 2001d:60071** *and* **Grothaus, Martin, 2001e:60136**
**Uboe, Jan** *see* **Aase, Knut et al., 2001j:60126**
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**Yonezawa, Hisayuki** A white noise approach to an evolutional equation in biology. (English summary) **2001k:60092**

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**Bakun, V. V.** On generalized local time for a Brownian motion process. (Russian. English and Ukrainian summaries) **2001h:60140**
**Benth, Fred Espen** (*with* Gjessing, Håkon K.) A nonlinear parabolic equation with noise. A reduction method. (English summary) **2001g:60152**
**Berezanskiĭ, Yuriĭ Makarovich** Infinite dimensional non-Gaussian analysis connected with generalized translation operators. (English summary) **2001e:46078**
— On the theory of commutative Jacobi fields. (English summary) **2001f:47050**
**Cartier, Pierre** (*with* DeWitt-Morette, Cécile) Functional integration. (English summary) **2001m:58023**
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**Elkhimova, Yu. V.** *see* **Gelig, A. Kh.**
**Erraoui, M.** (*with* Ouknine, Y.; Sbi, A.) Solution and reflected solutions of FSDEs with generalized Wiener functional approach. (English summary) **2001j:60109**
**de Faria, Margarida** (*with* Oliveira, Maria João; Streit, Ludwig) A generalized Clark-Ocone formula. (English summary) **2001g:60159**
**Gelig, A. Kh.** (*with* Elkhimova, Yu. V.) The stability of the Ito functional-differential equation with a monotone nonlinear characteristic. (English summary)
**Gjessing, Håkon K.** *see* **Benth, Fred Espen, 2001g:60152**
**Gong, Fuzhou** (*with* Hu, Qiuling) Generalized Wiener functionals, white noise distributions, and distributions on the real Schwartz spaces of generalized functions. (English and Chinese summaries) **2001e:60079**
**Grothaus, Martin** (*with* Streit, Ludwig) Quadratic actions, semi-classical approximation, and delta sequences in Gaussian analysis. (English summary) **2001b:81064**
— (*with* Kondrat'ev, Yu. G.; Streit, G. L.) Scaling limits for the solution of Wick type Burgers equation. (English summary) **2001a:60071**
**Hertfelder, C.** (*with* Kümmerer, Burkhard) Classical analogs of quasifree quantum stochastic processes given by stochastic states of the quantized electromagnetic field. (English summary) **2001k:81127**
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**Kachanovskiĭ, N. A.** Biorthogonal Appell-like systems in a Hilbert space. (English summary) **2001d:46058**
— (*with* Koshkin, S. V.) Minimality of Appell-like systems and embeddings of test function spaces in a generalization of white noise analysis. (English summary) **2001g:46098**

— On stochastic integral, Wick calculus and generalized stochastic equations on distribution spaces of non-Gaussian infinite-dimensional analysis. (English summary) **2001b:60074**
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**Kamins'kiĭ, A. B.** A white noise approach to stochastic integration for a Poisson random measure. (Ukrainian. Ukrainian summary)
**Kondrat'ev, Yu. G.** *see* **Grothaus, Martin et al., 2001a:60071**
**Koshkin, S. V.** A limit theorem that relates Lévy means with integrals with respect to measures of white noise. (Ukrainian. English summary)
— *see also* **Kachanovskiĭ, N. A., 2001g:46098**
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**Van Casteren, Jan A.** On the Korovkin property and Feller semigroups. (English summary) **2001i:47067**
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**Villani, Cédric** A short proof of the "concavity of entropy power". (English summary) **2001b:94011**
**Weber, Matthias[1]** On the matrix spectral function of a generalized second-order differential operator in a ramified space. (English summary) **2001i:34141**
**Wu, Li Ming[1]** Uniformly integrable operators and large deviations for Markov processes. (English summary) **2001e:60062**
**Zhang, Shun Ming** (*with* Liu, Zaihua) General Black-Scholes model of security valuation. (English summary) **2001k:91084**
**Zheng, Weian** Heat kernel on a Lipschitz manifold composed of two halfspaces with different metrics. (English summary) **2001f:60092**
**Zhou, Xian Yin** *see* **Hambly, Ben M. et al., 2001e:60158**

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**Lecture Notes in Mathematics** *see* **Eberle, Andreas, 2001c:60122** *and* **Kolokol'tsov, V. N., 2001f:58073**

## 60J40 Right processes

**Beznea, Lucian** (*with* Boboc, Nicu) Excessive kernels and Revuz measures. (English summary) **2001h:60131**
**Boboc, Nicu** *see* **Beznea, Lucian, 2001h:60131**
**Getoor, R. K.** An extended generator and Schrödinger equations. (English summary) **2001c:60115**
**Wang, Zhan Qing** The continuity of paths of random processes under strong duality. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60J40

**Dong, Zhao** $C_{r,p}$-capacity associated with Hunt processes. **2001j:60134**
**Getoor, R. K.** Measure perturbations of Markovian semigroups. (English summary) **2001c:60119**
**Stummer, Wolfgang** (*with* Sturm, K.-Th.) On exponentials of additive functionals of Markov processes. (English summary) **2001b:60093**
**Sturm, K.-Th.** *see* **Stummer, Wolfgang, 2001b:60093**
**Vondraček, Zoran** Asymptotics of first-passage time over a one-sided stochastic boundary. (English summary) **2001g:60102**

## 60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

**Angel, Omer** (*with* Benjamini, Itai; Peres, Yuval) A large Wiener sausage from crumbs. (English summary) **2001h:60132**
**Benjamini, Itai** *see* **Angel, Omer et al., 2001h:60132**
**Chen, Chunsheng[2]** *see* **Yan, Haifeng**
**Fitzsimmons, P. J.** Strict fine maxima. (English summary) **2001g:60181**
**Fukushima, Masatoshi** On semi-martingale characterizations of functionals of symmetric Markov processes. (English summary) **2001b:60091**
**Hino, Masanori** Exponential decay of positivity preserving semigroups on $L^p$. **2001k:60109**
**Hirsch, Francis** (*with* Song, Shiqi) Multiparameter Markov processes and capacity. (English summary) **2001a:60088**
**Jacob, Niels** An application of $(r, 2)$-capacities to pseudo differential operators. (English summary) **2001e:60154**
**Kelbert, Mark** Intersection properties of Brownian paths. (English summary)
**Kigami, Jun** Markov property of Kusuoka-Zhou's Dirichlet forms on self-similar sets. (English summary) **2001g:60182**
**Kim, Jai Heui** (*with* Song, Jung Hoon) On oblique reflecting switched diffusion processes. (English summary) **2001f:60076**
**Kulczycki, Tadeusz** Exit time and Green function of cone for symmetric stable processes. (English summary) **2001f:60077**
**Oshima, Yoichi** Certain ratio limit theorem for time inhomogeneous Markov chains. (English summary) **2001m:60172**
**Peres, Yuval** *see* **Angel, Omer et al., 2001h:60132**
**Rosen, Jay** Capacitary moduli for Lévy processes and intersections. (English summary) **2001h:60133**
**Simon, Thomas D.** Subordination in the wide sense for Lévy processes. (English summary) **2001c:60116**
**Song, Jung Hoon** *see* **Kim, Jai Heui, 2001f:60076**
**Song, Renming** (*with* Wu, Jang-Mei) Boundary Harnack principle for symmetric stable processes. (English summary) **2001b:60092**

**Song, Shiqi** *see* **Hirsch, Francis, 2001a:60088**
**Varopoulos, N. Th.** Potential theory in conical domains. II. **2001f:60078**
**Wu, Jang-Mei** *see* **Song, Renming, 2001b:60092**
**Yan, Haifeng** (*with* Chen, Chunsheng[2]) On the Hausdorff dimension of the inverse image for any compact set under a self-similar Markov process. (English and Chinese summaries)

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**Bass, Richard F.** (*with* Burdzy, Krzysztof) Fiber Brownian motion and the "hot spots" problem. **2001g:60190**
**Bertoin, Jean** Intersection of independent regenerative sets. (English summary) **2001c:60016**
**Beznea, Lucian** (*with* Boboc, Nicu) Excessive kernels and Revuz measures. (English summary) **2001h:60131**
**Boboc, Nicu** *see* **Beznea, Lucian, 2001h:60131**
**Bogdan, Krzysztof** (*with* Byczkowski, Tomasz) Probabilistic proof of boundary Harnack principle for $\alpha$-harmonic functions. (English summary) **2001a:60089**
**Burdzy, Krzysztof** *see* **Bass, Richard F., 2001g:60190**
**Byczkowski, Tomasz** *see* **Bogdan, Krzysztof, 2001a:60089**
**Chen, Zhen-Qing** (*with* Song, Renming) Intrinsic ultracontractivity, conditional lifetimes and conditional gauge for symmetric stable processes on rough domains. (English summary) **2001m:60166**
**Chu, Cho-Ho** (*with* Leung, Chi-Wai) Harmonic functions on homogeneous spaces. (English summary) **2001b:43002**
**Cipriani, Fabio** Estimates for capacities of nodal sets and polarity criteria in recurrent Dirichlet spaces. (English summary) **2001f:31013**
**Collet, Pierre** (*with* Martínez, Servet; San Martín, Jaime) Asymptotic behaviour of a Brownian motion on exterior domains. (English summary) **2001h:60142**
**Csáki, Endre** (*with* Khoshnevisan, Davar; Shi, Zhan) Capacity estimates, boundary crossings and the Ornstein-Uhlenbeck process in Wiener space. (English summary) **2001g:60083**
**Deaconu, Madalina** (*with* Gradinaru, Mihai; Roche, Jean Rodolphe) Sojourn time of some reflected Brownian motion in the unit disk. (English summary) **2001h:60143**
**Doob, Joseph L.** ★ Classical potential theory and its probabilistic counterpart. **2001j:31002**
**Fitzsimmons, P. J.** Hardy's inequality for Dirichlet forms. (English summary) **2001h:31010**
**Fukai, Yasunari** Hitting distribution to a quadrant of two-dimensional random walk. **2001h:60083**
**Getoor, R. K.** An extended generator and Schrödinger equations. (English summary) **2001c:60115**
— Measure perturbations of Markovian semigroups. (English summary) **2001c:60119**
**Gradinaru, Mihai** *see* **Deaconu, Madalina et al., 2001h:60143**
**Handelman, David E.** Eigenvectors and ratio limit theorems for Markov chains and their relatives. (English summary) **2001e:60142**
**Hirsch, Francis** (*with* Song, Shiqi) Two-parameter Bessel processes. (English summary) **2001a:60086**
**Jacob, Niels** (*with* Schilling, René L.) Fractional derivatives, non-symmetric and time-dependent Dirichlet forms and the drift form. (English summary) **2001g:31009**
**Janssen, Klaus** On the Choquet charge of $\delta$-superharmonic functions. (English summary) **2001f:31017**
**Khoshnevisan, Davar** *see* **Csáki, Endre et al., 2001g:60083**
**Kuwae, Kazuhiro** On a strong maximum principle for Dirichlet forms. (English summary) **2001k:31015**
**Leung, Chi-Wai** *see* **Chu, Cho-Ho, 2001b:43002**
**Li, Zeng Hu** Measure-valued immigration processes and Kuznetsov processes. (English summary) (*see* **2001f:60004**)
**Martínez, Servet** *see* **Collet, Pierre et al., 2001h:60142**
**Murakami, Atsushi** (*with* Yamasaki, Maretsugu) Inequalities on infinite networks. (English summary) **2001i:31015**
**Osada, Hirofumi** A family of diffusion processes on Sierpinski carpets. (English summary) **2001m:60181**
**Roche, Jean Rodolphe** *see* **Deaconu, Madalina et al., 2001h:60143**
**Rozkosz, Andrzej** A note on Dirichlet processes. (English summary) **2001i:60128**
**Salisbury, Thomas S.** (*with* Verzani, John) On the conditioned exit measures of super Brownian motion. (English summary) **2001m:60198**
**San Martín, Jaime** *see* **Collet, Pierre et al., 2001h:60142**
**Schilling, René L.** *see* **Jacob, Niels, 2001g:31009**
**Schmuland, Byron** Dirichlet forms: some infinite-dimensional examples. (English and French summaries) **2001g:31011**
**Sheu, Yuan-Chung** Asymptotic behavior of superprocesses. (English summary) **2001e:60078**
**Shi, Zhan** *see* **Csáki, Endre et al., 2001g:60083**
**Song, Renming** *see* **Chen, Zhen-Qing, 2001m:60166**
**Song, Shiqi** *see* **Hirsch, Francis, 2001a:60086**
**Sun, Wei[3]** Quasi-homeomorphisms and measures of finite energy integrals of generalized Dirichlet forms. (English summary) **2001k:31017**
**Telcs, András** Transition probability estimates for reversible Markov chains. (English summary) **2001b:60088**
**Tsirelson, B.** Triple points: from non-Brownian filtrations to harmonic measures. **2001g:60199**
**Verzani, John** *see* **Salisbury, Thomas S., 2001m:60198**
**Wüthrich, Mario V.** Geodesics and crossing Brownian motion in a soft Poissonian potential. (English and French summaries) **2001f:60091**
**Yamasaki, Maretsugu** *see* **Murakami, Atsushi, 2001i:31015**

## 60J50 Boundary theory

**Bogdan, Krzysztof** (*with* Byczkowski, Tomasz) Probabilistic proof of boundary Harnack principle for $\alpha$-harmonic functions. (English summary) **2001a:60089**
**Byczkowski, Tomasz** *see* **Bogdan, Krzysztof, 2001a:60089**
**Kaneko, Hiroshi[2]** Martin-Kuramochi boundary and reflecting symmetric diffusion. (English summary) **2001m:60173**

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**Bogdan, Krzysztof** Representation of $\alpha$-harmonic functions in Lipschitz domains. (English summary) **2001a:31011**
**Connell, Christopher** Asymptotic harmonicity of negatively curved homogeneous spaces and their measures at infinity. (English summary) **2001j:53061**
**Fukushima, Masatoshi** Decompositions of symmetric diffusion processes and related topics in analysis [translation of Sūgaku **50** (1998) no. 1, 56–67; MR 99g:60138]. (*see* **2001m:00026**)
**Kuznetsov, S. E.** On uniqueness of a solution of $Lu = u^\alpha$ with given trace. (English summary) **2001i:35122**
**Mouton, Frédéric** Comportement asymptotique des fonctions harmoniques sur les arbres. (English and French summaries) [Asymptotic behavior of harmonic functions on trees] **2001b:31009**
**Takács, Lajos** On the local time of the Brownian bridge. **2001i:60136**

## 60J55 Local time and additive functionals

**Bass, Richard F.** (*with* Eisenbaum, Nathalie; Shi, Zhan) The most visited sites of symmetric stable processes. (English summary) **2001f:60079**
**Boufoussi, Brahim** (*with* N'zi, Modeste) On the regularity of the local times of a class of symmetric Lévy processes. (English summary) **2001c:60117**
**Carmona, Philippe** (*with* Petit, Frédérique; Pitman, James W.; Yor, Marc) On the laws of homogeneous functionals of the Brownian bridge. (English summary) **2001f:60080**
**Csörgő, Miklós** (*with* Shi, Zhan; Yor, Marc) Some asymptotic properties of the local time of the uniform empirical process. (English summary) **2001a:60090**
**Didkovskii, I. R.** Limit theorems of ergodic type for nonnegative additive functionals over Markov processes in the scheme of series. (Ukrainian summary)
**Eisenbaum, Nathalie** Erratum to: "Limit theorems for the local times of a symmetric stable process" [in *Séminaire de Probabilités, XXXI*, Lecture Notes in Math., 1655, Springer, Berlin, 1997; MR 99f:60138]. (French) (*see* **2001b:60004**)
— *see also* **Bass, Richard F. et al., 2001f:60079**
**Gittenberger, Bernhard** (*with* Louchard, Guy) On the local time density of the reflecting Brownian bridge. (English summary) **2001h:60134**
**Hu, Yueyun** The laws of Chung and Hirsch for Cauchy's principal values related to Brownian local times. (English summary) **2001g:60183**
— (*with* Warren, Jonathan) Ray-Knight theorems related to a stochastic flow. (English summary) **2001a:60091**
— (*with* Mellouk, Mohamed) Régularité Besov-Orlicz du temps local brownien. (English summary) [Besov-Orlicz regularity of Brownian local time] **2001c:60118**
**Kaspi, Haya** (*with* Rosen, Jay) $p$-variation for families of local times on lines. **2001i:60125**
**Lachal, Aimé** First exit time from a bounded interval for a certain class of additive functionals of Brownian motion. (English summary) **2001i:60126**
**Louchard, Guy** *see* **Gittenberger, Bernhard, 2001h:60134**
**Marcus, Michael B.** (*with* Rosen, Jay) Additive functionals of several Lévy processes and intersection local times. (English summary) **2001f:60081**
**Mellouk, Mohamed** *see* **Hu, Yueyun, 2001c:60118**
**Nakajima, Tadashi** A certain class of distribution-valued additive functionals. I. For the case of Brownian motion. **2001j:60137**
**N'zi, Modeste** *see* **Boufoussi, Brahim, 2001c:60117**
**Petit, Frédérique** *see* **Carmona, Philippe et al., 2001f:60080**
**Pitman, James W.** The distribution of local times of a Brownian bridge. (*see* **2001b:60004**)
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**Rosen, Jay** *see* **Marcus, Michael B., 2001f:60081** *and* **Kaspi, Haya, 2001i:60125**
**Shi, Zhan** *see* **Csörgő, Miklós et al., 2001a:60090** *and* **Bass, Richard F. et al., 2001f:60079**
**Stummer, Wolfgang** (*with* Sturm, K.-Th.) On exponentials of additive functionals of Markov processes. (English summary) **2001b:60093**
**Sturm, K.-Th.** *see* **Stummer, Wolfgang, 2001b:60093**
**Takács, Lajos** The distribution of the sojourn time for the Brownian excursion. (English summary) **2001a:60092**
**Todorova, Ekaterina** Self-intersection local time of the fluctuation limit of a multitype branching particle system. (English summary) **2001j:60138**
**Warren, Jonathan** *see* **Hu, Yueyun, 2001a:60091**
**Yamada, Toshio** Representations of continuous additive functionals of zero energy via convolution type transforms of Brownian local times and the Radon transform. (English summary) **2001e:60155**
**Yor, Marc** *see* **Csörgő, Miklós et al., 2001a:60090** *and* **Carmona, Philippe et al., 2001f:60080**
**Zhang, Xi-cheng** Smoothness of renormalized self-intersection local times of planar Brownian motion. (English and Chinese summaries) **2001m:60174**

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**Abraham, Romain** Reflecting Brownian snake and a Neumann-Dirichlet problem. (English summary) **2001j:60133**
**Airault, Hélène** (*with* Ren, Jiagang; Zhang, Xi-cheng) Smoothness of local times of semimartingales. (English and French summaries) **2001a:60063**
**Bakun, V. V.** On generalized local time for a Brownian motion process. (Russian. English and Ukrainian summaries) **2001h:60140**
**Bertoin, Jean** Intersection of independent regenerative sets. (English summary) **2001c:60016**
**Beznea, Lucian** (*with* Boboc, Nicu) Excessive kernels and Revuz measures. (English summary) **2001h:60131**
**Blackburn, Robert** Large deviations of local times of Lévy processes. (English summary) **2001h:60084**
**Boboc, Nicu** *see* **Beznea, Lucian, 2001h:60131**
**Bojdecki, Tomasz** (*with* Gorostiza, Luis G.) Self-intersection local time for $\mathcal{S}'(\mathbb{R}^d)$-Wiener processes and related Ornstein-Uhlenbeck processes. (English summary) **2001k:60060**
**Borodin, A. N.** On the distribution of functionals of Brownian motion stopped at inverse range time. (Russian. English and Russian summaries) **2001g:60192**

**Casukhela, Kameswarrao S.** *see* **Elalaoui-Talibi, Hussain, 2001d:60050**
**Chao, Tsung-Ming** (*with* Chou, Ching-Sung) On some inequalities of local times for Azéma martingales. (English summary) **2001c:60074**
**Chaumont, L.** (*with* Doney, R. A.; Hu, Yueyun) Upper and lower limits of doubly perturbed Brownian motion. (English and French summaries) **2001f:60087**
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— (*with* Doney, R. A.) Some calculations for doubly perturbed Brownian motion. (English summary) **2001c:60126**
**Cho, Nhansook** A law of iterated logarithm for occupation time of Brownian motion in $l_2$. (English summary) **2001i:60129**
**Chou, Ching-Sung** *see* **Chao, Tsung-Ming, 2001c:60074**
**Coquet, François** (*with* Ouknine, Y.) Some identities on semimartingales local times. (English summary) **2001f:60062**
**Csáki, Endre** (*with* Csörgő, Miklós; Földes, Antónia; Shi, Zhan) Increment sizes of the principal value of Brownian local time. (English summary) **2001e:60165**
— *see also* **Csörgő, Miklós, 2001k:01055**
**Csörgő, Miklós** Be $n$ fixed, or go to infinity: difficulties are welcome, and almost surely overcome. A tribute to Endre Csáki. **2001k:01055**
— *see also* **Csáki, Endre et al., 2001e:60165**
**Dawson, Donald A.** (*with* Fleischmann, Klaus; Mueller, Carl E.) Finite time extinction of superprocesses with catalysts. (English summary) **2001h:60151**
**Dembo, Amir** (*with* Peres, Yuval; Rosen, Jay; Zeitouni, Ofer) Thick points for spatial Brownian motion: multifractal analysis of occupation measure. (English summary) **2001g:60194**
**Ding, Xiao Dong** (*with* Sun, Xiao Jun) On the solutions of stochastic differential equations involving the local times of the unknown processes. (Chinese. English and Chinese summaries)
**Donati-Martin, Catherine** (*with* Shi, Zhan; Yor, Marc) The joint law of the last zeros of Brownian motion and of its Lévy transform. (English summary) **2001k:60113**
**Doney, R. A.** *see* **Chaumont, L. et al., 2001c:60126** *and* **2001f:60087**
**Eisenbaum, Nathalie** (*with* Shi, Zhan) Measuring the rarely visited sites of Brownian motion. (English summary) **2001a:60094**
**Elalaoui-Talibi, Hussain** (*with* Casukhela, Kameswarrao S.) A note on the multivariate local time intensity of exchangeable interval partitions. (English summary) **2001d:60050**
**de Faria, Margarida** (*with* Oliveira, Maria João; Streit, Ludwig) A generalized Clark-Ocone formula. (English summary) **2001g:60159**
**Fleischmann, Klaus** (*with* Mueller, Carl E.) Finite time extinction of catalytic branching processes. (English summary) **2001j:60150**
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**Földes, Antónia** *see* **Csáki, Endre et al., 2001e:60165**
**Freidlin, M. I.** (*with* Sheu, Shuenn-Jyi) Diffusion processes on graphs: stochastic differential equations, large deviation principle. (English summary) **2001k:60111**
**Fukushima, Masatoshi** On semi-martingale characterizations of functionals of symmetric Markov processes. (English summary) **2001b:60091**
— On limit theorems for Brownian motions on unbounded fractal sets. (English summary) (*see* **2001d:28001**)
**Getoor, R. K.** Measure perturbations of Markovian semigroups. (English summary) **2001c:60119**
**Gittenberger, Bernhard** (*with* Louchard, Guy) The Brownian excursion multi-dimensional local time density. (English summary) **2001a:60100**
**Gorostiza, Luis G.** *see* **Bojdecki, Tomasz, 2001k:60060**
**He, Ping[2]** Excursions of Markov processes with duality and discrete approximation of conditioned excursion laws. (English summary) **2001m:60167**
**Hirsch, Francis** (*with* Song, Shiqi) Multiparameter Markov processes and capacity. (English summary) **2001a:60088**
**Hu, Di He** *see* **Zhong, Yu Quan[2], 2001g:60123**
**Hu, Xiao Yu** (*with* Taylor, S. James) Multifractal structure of a general subordinator. (English summary) **2001f:60048**
**Hu, Yueyun** (*with* Yor, Marc) Asymptotic studies of Brownian functionals. (English summary) **2001g:60047**
— (*with* Shi, Zhan) The problem of the most visited site in random environment. (English summary) **2001b:60065**
— *see also* **Chaumont, L. et al., 2001f:60087**
**Imkeller, Peter** (*with* Weisz, Ferenc) Double points of the Brownian sheet in $\mathbf{R}^d$ and the geometry of the parameter space. (English summary) **2001i:60085**
**Kim, Jai Heui** (*with* Song, Jung Hoon) On oblique reflecting switched diffusion processes. (English summary) **2001f:60076**
**Lambert, Amaury** Completely asymmetric Lévy processes confined in a finite interval. (English and French summaries) **2001f:60049**
**León, José Rafael** (*with* Perera, Gonzalo) Approximation of the Ornstein-Uhlenbeck local time by harmonic oscillators. (English summary) **2001c:60062**
**Lin, Zheng Yan** (*with* Zhang, Li Xin) Increments and sample path properties of Gaussian processes. (English summary) **2001h:60065**
**Louchard, Guy** *see* **Gittenberger, Bernhard, 2001a:60100**
**Mathieu, Pierre[2]** Construction et renormalisation des temps locaux d'intersection de deux mouvements browniens plans. (English summary) [Construction and renormalization of the local times of intersection of two planar Brownian motions] **2001e:60169**
— Construction et renormalisation des temps locaux d'intersection de deux mouvements browniens plans. (English summary) [Construction and renormalization of the local times of intersection of two planar Brownian motions] **2001e:60170**
**Mishura, Yu. S.** (*with* Ol'tsik, Ya. O.) Potentials and local times associated with two-parameter purely discontinuous strong martingales. (Ukrainian. Ukrainian summary)
**Mörters, Peter** Almost sure Kallianpur-Robbins laws for Brownian motion in the plane. (English summary) **2001i:60134**
**Mueller, Carl E.** *see* **Dawson, Donald A. et al., 2001h:60151** *and* **Fleischmann, Klaus, 2001j:60150**
**Nasyrov, F. S.** On the representation of some classes of Itô stochastic integrals as Lebesgue path integrals. (Russian. Russian summary) **2001h:60101**
**Oliveira, Maria João** *see* **de Faria, Margarida et al., 2001g:60159**
**Ol'tsik, Ya. O.** *see* **Mishura, Yu. S.**
**Ouknine, Y.** *see* **Coquet, François, 2001f:60062**
**Perera, Gonzalo** *see* **León, José Rafael, 2001c:60062**
**Peres, Yuval** *see* **Dembo, Amir et al., 2001g:60194**
**Ren, Jiagang** *see* **Airault, Hélène et al., 2001a:60063**
**Révész, Pál** On the inverse local time process of a plane random walk. **2001m:60103**
**Rosen, Jay** *see* **Dembo, Amir et al., 2001g:60194**
**Sericola, Bruno** Occupation times in Markov processes. (English summary) **2001i:60120**
**Sheu, Shuenn-Jyi** *see* **Freidlin, M. I., 2001k:60111**
**Shi, Zhan** *see* **Eisenbaum, Nathalie, 2001a:60094**; **Hu, Yueyun, 2001b:60065**; **Csáki, Endre et al., 2001e:60165** *and* **Donati-Martin, Catherine et al., 2001k:60113**
**Song, Jung Hoon** *see* **Kim, Jai Heui, 2001f:60076**
**Song, Shiqi** *see* **Hirsch, Francis, 2001a:60088**
**Streit, Ludwig** *see* **de Faria, Margarida et al., 2001g:60159**
**Sun, Xiao Jun** *see* **Ding, Xiao Dong**
**Takács, Lajos** On the local time of the Brownian bridge. **2001i:60136**
**Taylor, S. James** *see* **Hu, Xiao Yu, 2001f:60048**
**Tóth, Bálint** Self-interacting random motions—a survey. (English summary) **2001d:60048**
**Weisz, Ferenc** *see* **Imkeller, Peter, 2001i:60085**
**Wu, Li Ming[1]** Functional law of iterated logarithm for additive functionals of reversible Markov processes. (English summary) **2001i:60061**
**Yor, Marc** *see* **Hu, Yueyun, 2001g:60047** *and* **Donati-Martin, Catherine et al., 2001k:60113**
**Zeitouni, Ofer** *see* **Dembo, Amir et al., 2001g:60194**
**Zhang, Li Xin** *see* **Lin, Zheng Yan, 2001h:60065**
**Zhang, Xi-cheng** *see* **Airault, Hélène et al., 2001a:60063**
**Zhong, Yu Quan[2]** (*with* Hu, Di He) Local time of additive Levy process. (English summary) **2001g:60123**

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**Csáki, Endre** *see* **Csörgő, Miklós, 2001k:01055**

## 60J57 Multiplicative functionals

**Getoor, R. K.** Measure perturbations of Markovian semigroups. (English summary) **2001c:60119**

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**Del Moral, Pierre** (*with* Miclo, Laurent) Branching and interacting particle systems approximations of Feynman-Kac formulae with applications to non-linear filtering. (English summary) **2001g:60091**
— (*with* Miclo, Laurent) A Moran particle system approximation of Feynman-Kac formulae. (English summary) **2001g:60242**
**Miclo, Laurent** *see* **Del Moral, Pierre, 2001g:60091** *and* **2001g:60242**
**Nagasawa, Masao** (*with* Tanaka, Hiroshi[1]) Time dependent subordination and Markov processes with jumps. (English summary) **2001e:60147**
**Tanaka, Hiroshi[1]** *see* **Nagasawa, Masao, 2001e:60147**

## 60J60 Diffusion processes [see also 58J65]

**Alawneh, Ameen J.** (*with* Al-Eideh, Basel M.) Moment approximation of the first-passage time for the Ornstein-Uhlenbeck process. (English summary)
**Al-Eideh, Basel M.** *see* **Alawneh, Ameen J.**
**Antonyuk, A. Val.** (*with* Antonyuk, A. Vikt.) $C^\infty$ dependence on initial data. (English summary)
— (*with* Antonyuk, A. Vikt.) Wiener space differentiability. (English summary)
— (*with* Antonyuk, A. Vikt.) Applications to the $C^\infty$ smoothing of associated Feller semigroups. (English summary)
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## 60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [see also 92Dxx]

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## 60J75 Jump processes

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**Högnäs, Göran** On some one-dimensional stochastic population models. (English summary) **2001k:60095**
**Hong, Wen-Ming** The occupation density field for the catalytic super-Brownian motion. (English summary) **2001d:60051**
**Hu, Di He** Advances in the study of random recursive sets. I. (Chinese. English and Chinese summaries) **2001c:28014**
**Iyer, Srikanth K.** *see* **Adler, Robert J., 2001h:60089**
**Kaj, Ingemar** *see* **Bose, Amit, 2001h:60126**
**Kale, Mohan** (*with* Deshmukh, S. R.) Estimation in continuous state-space branching processes. (English summary) **2001k:62097**
**Kalinkin, A. V.** The de Finetti-Khinchin symmetry theorem in nonequilibrium statistical physics. (Russian) **2001h:82065**
**Kartashov, N. V.** Calculation of the spectral ergodicity exponent for the birth and death process. (Russian. English and Ukrainian summaries) **2001m:60169**
**Klenke, Achim** Absolute continuity of catalytic measure-valued branching processes. (English summary) **2001h:60070**
— *see also* **Cox, J. Theodore et al., 2001h:60175**
**Krikun, M.** Height of a random tree. (English summary) **2001i:60012**
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— *see also* **Thilaka, B. et al., 2001b:60104**
**Le Gall, Jean-François** The Hausdorff measure of the range of super-Brownian motion. (English summary) **2001j:60095**
**Lenin, R. B.** (*with* Parthasarathy, P. R.) Transient analysis in discrete time of Markovian queues with quadratic rates. (English summary) **2001m:60213**
**Li, Bing-zhang** (*with* Yu, Jing-hu) On the weighted occupation time and support of super-Brownian motion conditioned on non-extinction. (English summary) **2001a:60059**
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**Liggett, Thomas M.** Branching random walks on finite trees. (English summary) **2001a:60116**
**Löcherbach, Eva** Likelihood ratio processes and asymptotic statistics for systems of interacting diffusions with branching and immigration. (English summary) **2001j:60143**
**Maâouia, Faïza** (*with* Touati, Abderrahmen) Identification of multitype branching processes. (English and French summaries) **2001j:62100**
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**Parthasarathy, P. R.** *see* **Lenin, R. B., 2001m:60213**
**Perkins, Edwin A.** *see* **Cox, J. Theodore et al., 2001d:60104; 2001d:60105** *and* **2001h:60175**
**Pollett, P. K.** *see* **Bean, N. G. et al., 2001k:60099**
**Răuţu, Gheorghe** On the branching diagrams of thinning. (English summary)
**Ren, Yan Xia** Absolute continuities of exit measures for superdiffusions. (English summary)
**Samuel-Cahn, Ester** *see* **Assaf, David et al., 2001j:60081**
**Schoutens, Wim** Orthogonal polynomials in Stein's method. (English summary) **2001k:62021**
**Serlet, Laurent** *see* **Dhersin, Jean-Stéphane, 2001f:60075**
**Sheu, Yuan-Chung** Asymptotic behavior of superprocesses. (English summary) **2001e:60078**
**Slade, Gordon** *see* **Borgs, Christian et al., 2001i:82036**
**Stadje, Wolfgang** First-exit times for integer-valued continuous-time Markov chains. (English summary) **2001i:60121**
**Tanré, Etienne** *see* **Deaconu, Madalina, 2001m:82064**
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**Touati, Abderrahmen** *see* **Maâouia, Faïza, 2001j:62100**
**Vijayakumar, Arunachalam** *see* **Thilaka, B. et al., 2001b:60104** *and* **Kumar, B. Krishna et al., 2001b:60105**
**Virág, Bálint** On the speed of random walks on graphs. (English summary) **2001g:60173**
**Wakolbinger, Anton** *see* **Birkner, Matthias, 2001j:60178**
**van der Wal, P.** *see* **Dekking, F. M., (2001m:00019)**
**Wang, Feng-Yu** Sobolev type inequalities for general symmetric forms. (English summary) **2001b:46053**
**Yu, Jing-hu** *see* **Li, Bing-zhang, 2001a:60059**
**Zhang, Yu Hui[2]** Strong ergodicity for single-birth processes. (English summary) **2001m:60170**
**Zhao, Li Jiu** (*with* Chen, Da Yue) The contact process on Galton-Watson trees. (Chinese. English and Chinese summaries)

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**Lecture Notes in Statistics** *see* **Andersson, Håkan, 2001j:92052**

## 60J85 Applications of branching processes [see also 92Dxx]

**Chan, Wenyaw** (*with* Kapadia, Asha S.; Chuang, Alice Z.) A stochastic model of smoking behavior under a cessation program. (English summary)
**Chuang, Alice Z.** *see* **Chan, Wenyaw et al.**
**Gibson, Gavin J.** (*with* Renshaw, Eric) Inference for immigration-death processes with single and paired immigrants. (English summary)
**Kapadia, Asha S.** *see* **Chan, Wenyaw et al.**
**Kumar, B. Krishna** (*with* Vijayakumar, Arunachalam; Thilaka, B.) Multitype branching processes with disasters. II. Total sojourn time and number of deaths. (English summary) **2001b:60105**
— *see also* **Thilaka, B. et al., 2001b:60104**
**Kyriakidis, E. G.** The transient probabilities of the simple immigration-catastrophe process.
**Pertsev, N. V.** A probabilistic model of the dynamics of interacting particles with limited life span. (Russian. English summary) (*see* **2001a:00015**)
**Renshaw, Eric** *see* **Gibson, Gavin J.**
**Sheremet, O. I.** *see* **Virchenko, Yu. P.**
**Stirzaker, David** Disasters.
**Thilaka, B.** (*with* Kumar, B. Krishna; Vijayakumar, Arunachalam) Multitype branching processes with disasters. I. The number of particles in the system. (English summary) **2001b:60104**
— *see also* **Kumar, B. Krishna et al., 2001b:60105**
**Vijayakumar, Arunachalam** *see* **Thilaka, B. et al., 2001b:60104** *and* **Kumar, B. Krishna et al., 2001b:60105**
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**Arino, Ovide** *see* **Kimmel, Marek et al., (2001d:92001)**
**Axelrod, David E.** *see* **Kimmel, Marek et al., (2001d:92001)**
**Batra, S. D.** (*with* Gupta, Subhash Chand) Parity dependent population growth model. (English and Italian summaries) **2001m:92021**
**Błaszczyszyn, Bartłomiej** (*with* Rau, Christian; Schmidt, Volker[1]) Bounds for clump size characteristics in the Boolean model. (English summary) **2001a:60011**
**Chang, Joseph T.** Recent common ancestors of all present-day individuals. (English summary) **2001g:92016**
**Delmas, Jean-François** (*with* Dhersin, Jean-Stéphane) Characterization of $G$-regularity for super-Brownian motion and consequences for parabolic partial differential equations. (English summary) **2001b:60096**
**Dhersin, Jean-Stéphane** *see* **Delmas, Jean-François, 2001b:60096**
**Dietz, Klaus** *see* **Müller, Johannes Heinrich Otto Gustav et al., 2001f:92020**
**Gorostiza, Luis G.** (*with* Rodrigues, Eliane R.) A stochastic model for transport of particulate matter in air: an asymptotic analysis. (English summary) **2001c:91045**
**Gupta, Subhash Chand** *see* **Batra, S. D., 2001m:92021**
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**Kimmel, Marek** (*with* Arino, Ovide; Axelrod, David E.) Backward/forward duality of branching processes and cell population dynamics. (English summary) (*see* **2001d:92001**)
**Kretzschmar, Mirjam** *see* **Müller, Johannes Heinrich Otto Gustav et al., 2001f:92020**
**Kuznetsov, S. E.** On uniqueness of a solution of $Lu = u^{\alpha}$ with given trace. (English summary) **2001i:35122**
**Le Gall, Jean-François** ★ Spatial branching processes, random snakes and partial differential equations. (English summary) **2001g:60211**
**Li, Zeng Hu** Ornstein-Uhlenbeck type processes and branching processes with immigration. (English summary) **2001e:60178**
**López-Mimbela, J. Alfredo** (*with* Wakolbinger, Anton) A probabilistic proof of non-explosion of a non-linear PDE system. (English summary) **2001m:60197**
**Matis, James H.** (*with* Kiffe, Thomas R.) ★ Stochastic population models. (English summary) **2001c:92015**
**Müller, Johannes Heinrich Otto Gustav** (*with* Kretzschmar, Mirjam; Dietz, Klaus) Contact tracing in stochastic and deterministic epidemic models. (English summary) **2001f:92020**
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**Sagitov, Serik** The general coalescent with asynchronous mergers of ancestral lines. (English summary) **2001f:92019**
**Schmidt, Volker[1]** *see* **Błaszczyszyn, Bartłomiej et al., 2001a:60011**
**Wakolbinger, Anton** *see* **López-Mimbela, J. Alfredo, 2001m:60197**
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**Williams, David** *see* **Warren, Jonathan, 2001k:60089**

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## 60J99 None of the above, but in this section

**Bondarenko, Yu. V.** A probabilistic model for describing the evolution of financial indices. (Russian. English and Ukrainian summaries)
**Bučkovska, Aneta** *see* **Lazov, Petar R., (2001c:00015)**
**Dikarev, V. A.** Stabilization of the distributions of Markov processes in the wide sense. (Russian. English summary)
— (*with* Gerasin, S. N.; Slipchenko, N. I.) Stabilization of the state probabilities of a Markov process under local perturbations of its fragments. (Russian. English summary)
**Donnelly, Peter** (*with* Rodrigues, Eliane R.) Convergence to stationarity in the Moran model. (English summary) **2001g:60218**
**Gerasin, S. N.** *see* **Dikarev, V. A. et al.**
**Guo, Shui Xia** (*with* Yang, Xiang Qun) Lifetime distribution for Doob processes. (Chinese. English and Chinese summaries)
**Helmes, Kurt** (*with* Stockbridge, Richard H.) Numerical evaluation of resolvents and Laplace transforms of Markov processes using linear programming. (English summary)
**Ivanoff, B. Gail** (*with* Merzbach, Ely) Set-indexed Markov processes. (English summary) **2001g:60219**
**Kinateder, Kimberly K. J.** Strong Markov properties for Markov random fields. (English summary) **2001m:60202**
**Kolesnik, A. D.** A polynomial representation of the infinitesimal operator of the Markovian random evolution in a plane. (English, Russian and Moldavian summaries)
**Lazov, Petar R.** (*with* Bučkovska, Aneta) About some generalizations of the square root functions using a simple vector chain. (English summary) (*see* **2001c:00015**)
**Merzbach, Ely** *see* **Ivanoff, B. Gail, 2001g:60219**
**Nakai, Tōru** Generalized and partially observable $MTP_2$ Markov processes. (Japanese) (*see* **2001c:91004**)
**Rodrigues, Eliane R.** *see* **Donnelly, Peter, 2001g:60218**
**Slipchenko, N. I.** *see* **Dikarev, V. A. et al.**
**Stockbridge, Richard H.** *see* **Helmes, Kurt**
**Yang, Xiang Qun** *see* **Guo, Shui Xia**
**Zbăganu, Gheorghiță** A remark concerning the ergodicity coefficients with respect to the tensor product. (English summary)
**Zheng, Jing** (*with* Zhu, Zuo Bin) The definition of set-valued Markov processes and related problems. (Chinese. English and Chinese summaries)
— *see also* **Zhu, Zuo Bin**
**Zhu, Zuo Bin** (*with* Zheng, Jing) Measurable selections of set-valued Markov processes. (Chinese. English and Chinese summaries)
— *see also* **Zheng, Jing**

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**Allen, Linda J. S.** (*with* Burgin, Amy M.) Comparison of deterministic and stochastic SIS and SIR models in discrete time. (English summary) **2001a:92046**
**Bañuelos, Rodrigo** (*with* Méndez-Hernández, Pedro J.) Sharp inequalities for heat kernels of Schrödinger operators and applications to spectral gaps. (English summary) **2001f:35096**
**Blythe, Steve** (*with* Mao, Xuerong; Shah, Anita) Razumikhin-type theorems on stability of stochastic neural networks with delays. (English summary) **2001m:34126**
**Bulychev, Yu. G.** (*with* Lapsar′, A. P.) Modeling evolution systems by the support projection method. (Russian. English and Russian summaries)
**Burgin, Amy M.** *see* **Allen, Linda J. S., 2001a:92046**
**Capasso, Vincenzo** (*with* Salani, C.) Stochastic birth-and-growth processes modelling crystallization of polymers with spatially heterogeneous parameters. (English summary) **2001h:82068**
**Chang, Cheng-Chang** *see* **Su, Chao-Ton et al., 2001f:90015**
**Conti, Pier Luigi** (*with* Orsingher, Enzo) On the distribution of the position of a randomly accelerated particle. (English summary)
**Deelstra, Griselda** (*with* Janssen, Jacques) Interaction between asset liability management and risk theory. (English summary)
**Dufresne, Daniel** An affine property of the reciprocal Asian option process.
**Ganikhodzhaev, N. N.** (*with* Normatov, I. Kh.) Classification of a class of quadratic stochastic operators. (Russian. English and Uzbek summaries)
— (*with* Mukhamedov, F. M.; Rozikov, U. A.) Analytic methods in the theory of quantum quadratic stochastic processes. (English and Uzbek summaries) **2001j:81116**
**Ganikhodzhaev, R. N.** (*with* Karimov, A. Z.) On the number of vertices of a polyhedron of bistochastic quadratic operators. (Russian. English and Uzbek summaries)
**Gordienko, Evgueni I.** (*with* Salem, Francisco) Estimates of stability of Markov control processes with unbounded costs. (English summary) **2001k:90102**
**Hadeler, K. P.** Reaction telegraph equations and random walk systems. (English summary) **2001f:35200**
**Hillen, Thomas** (*with* Othmer, Hans G.) The diffusion limit of transport equations derived from velocity-jump processes. (English summary) **2001m:35302**
**Janssen, Jacques** *see* **Deelstra, Griselda**
**Jaroszewski, I.** (*with* Kwaśniewski, Andrzej K.) On the principal recurrence of data structures organization and orthogonal polynomials. (English summary)
**Karimov, A. Z.** *see* **Ganikhodzhaev, R. N.**
**Kümmerer, Burkhard** Quantum Markov processes driven by white noise. (English summary) **2001d:81034**
**Kwaśniewski, Andrzej K.** *see* **Jaroszewski, I.**
**Lapsar′, A. P.** *see* **Bulychev, Yu. G.**
**Lee, Oesook** Asymptotic behaviors of randomly perturbed dynamical systems. (English summary) **2001f:37007**
**Liu, Wen[1]** *see* **Yang, Wei Guo[1], 2001h:94013**
**Mao, Xuerong** *see* **Blythe, Steve et al., 2001m:34126**
**Méndez-Hernández, Pedro J.** *see* **Bañuelos, Rodrigo, 2001f:35096**
**Mukhamedov, F. M.** *see* **Ganikhodzhaev, N. N. et al., 2001j:81116**
**Nechaev, M. L.** On mean-variance hedging in the Ho-Lee diffusion model. (Russian. Russian summary) **2001g:91064**
**Normatov, I. Kh.** *see* **Ganikhodzhaev, N. N.**
**Øksendal, Anders** Irreversible investment problems. (English summary) **2001j:91077**
**Orsingher, Enzo** *see* **Conti, Pier Luigi**
**Othmer, Hans G.** *see* **Hillen, Thomas, 2001m:35302**
**Peyrière, Jacques** Recent results on Mandelbrot multiplicative cascades. (English summary) (*see* **2001d:28001**)
**Randall, Dana** (*with* Sinclair, Alistair) Self-testing algorithms for self-avoiding walks. (English summary) **2001c:82033**
**Rozikov, U. A.** *see* **Ganikhodzhaev, N. N. et al., 2001j:81116**
**Salani, C.** *see* **Capasso, Vincenzo, 2001h:82068**
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**Stettner, Łukasz** Remarks on ergodic conditions for Markov processes on Polish spaces. (English summary)
**Su, Chao-Ton** (*with* Wu, Sung-Chi; Chang, Cheng-Chang) Multiaction maintenance subject to action-dependent risk and stochastic failure. (English summary) **2001f:90015**
**Volna, A. A.** (*with* Zhigallo, O. O.) Estimation of some functionals of partially observed Markov processes. (Ukrainian. Ukrainian summary)
**Wu, Sung-Chi** *see* **Su, Chao-Ton et al., 2001f:90015**
**Yang, Wei Guo[1]** (*with* Liu, Wen[1]) Some limit theorems for a second-order nonhomogeneous Markov information source. (Chinese. English and Chinese summaries) **2001h:94013**
**Zhigallo, O. O.** *see* **Volna, A. A.**

# 60Kxx Special processes

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**(Janssen, Jacques)** *see* **Semi-Markov models and applications, 2001a:60002**
**(Limnios, N.)** *see* **Semi-Markov models and applications, 2001a:60002**

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**Compiègne** ★ Semi-Markov models and applications. **2001a:60002**
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**Semi-Markov Models: Theory and Applications** ★ Semi-Markov models and applications. **2001a:60002**

## 60K05 Renewal theory

**Abay, Abera** Renewal theorems for random walks in multidimensional time. (English summary) **2001b:60155**
**Asadov, A. G.** *see* **Rahimov, F. H.**
**Bertoin, Jean** Renewal theory for embedded regenerative sets. (English summary) **2001d:60096**
— (*with* van Harn, K.; Steutel, F. W.) Renewal theory and level passage by subordinators. (English summary) **2001b:60106**
**Bure, Vladimir M.** (*with* Kirpichnikov, B. K.) An integral equation and a limiting theorem for a modified model of a renewal process. (English summary)
**Csenki, Attila** Asymptotics for renewal-reward processes with retrospective reward structure. (English summary) **2001k:60127**
**Engibaryan, N. B.** Renewal equations on the half-line. (Russian. Russian summary) **2001d:60097a**
— Renewal equation on the whole line. (English summary) **2001d:60097b**
**Englund, Erling** Perturbed renewal equations with applications to $M/M$ queueing systems. I. (English summary)
**Ezhov, I. I.** (*with* Kadankov, V. F.) On the distribution of the maximum of the difference between independent renewal processes with discrete time. (Russian. English and Ukrainian summaries) **2001e:60184**
— (*with* Kadankov, V. F.) The generating function for the time of crossing the boundary of the semicontinuous difference of independent renewal processes with discrete time. (Russian. English and Ukrainian summaries) **2001k:60128**

**Ferreira, José António Sousa Jorge** Pairs of renewal processes whose superposition is a renewal process. (English summary) **2001g:60220**
**van Harn, K.** *see* **Bertoin, Jean et al., 2001b:60106**
**Ignatov, Tsvetan G.** (*with* Madjarova, Tatiana) Absorption of the compound Poisson process between two boundaries. (English summary) (*see* **2001c:00014**)
**Kadankov, V. F.** *see* **Ezhov, I. I., 2001e:60184** *and* **2001k:60128**
**Kang, Zhi Rong** (*with* Yan, Yu Bin) The analytic solution of the integral equation of renewal theory. (Chinese. English and Chinese summaries)
**Kanishauskas, V.** An asymptotic formula for the Hellinger integral for renewal processes. (Russian. Russian and Lithuanian summaries) **2001g:60221**
**Kirpichnikov, B. K.** *see* **Bure, Vladimir M.**
**Klesov, O. Ĭ.** (*with* Steinebach, Josef) Asymptotic behavior of renewal processes defined by random walks with multidimensional time. (Ukrainian. Ukrainian summary)
**Kushnir, A. O.** Estimates and convergence for the probability of the $\varepsilon$-approximation of two independent renewal processes. (Ukrainian. Ukrainian summary)
**Madjarova, Tatiana** *see* **Ignatov, Tsvetan G., (2001c:00014)**
**Mi, Jie** Average number of events and average reward. (English summary) **2001f:60097**
**Mitov, Kosto V.** A renewal theorem in the infinite mean case. **2001d:60098**
**Niculescu, Florentina Rodica** On the alternate renewal processes. (English summary)
**Perry, David** (*with* Stadje, Wolfgang; Zacks, S.) First-exit times for increasing compound processes. (English summary) **2001a:60102**
**Piau, Didier** Quasi-renewal estimates. (English summary) **2001j:60155a**
— Addendum to: "Quasi-renewal estimates" for modelling DNA replication. (English summary) **2001j:60155b**
**Pitts, Susan M.** *see* **Politis, Konstadinos, 2001e:60185**
**Politis, Konstadinos** (*with* Pitts, Susan M.) Nonparametric estimation in renewal theory. II. Solutions of renewal-type equations. (English summary) **2001e:60185**
**Rahimov, F. H.** (*with* Asadov, A. G.) Asymptotic expansion for the distribution of nonlinear renewal process. (English and Azerbaijani summaries)
**Stadje, Wolfgang** *see* **Perry, David et al., 2001a:60102**
**Steinebach, Josef** *see* **Klesov, O. Ĭ.**
**Steutel, F. W.** *see* **Bertoin, Jean et al., 2001b:60106**
**Yan, Yu Bin** *see* **Kang, Zhi Rong**
**Zacks, S.** *see* **Perry, David et al., 2001a:60102**

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**Borovkov, Aleksandr Alekseevich** (*with* Foss, S. G.) Estimates for the excess of a random walk over an arbitrary boundary and their applications. (Russian. Russian summary) **2001g:60107**
**Chang, Wen-Ching** *see* **Huang, Wen-Jang, 2001a:60056**
**Csáki, Endre** (*with* Földes, Antónia; Révész, Pál; Shi, Zhan) On the excursions of two-dimensional random walk and Wiener process. (English summary) **2001e:60089**
**Dai, Yong Long** (*with* Renshaw, Eric) The Markov oscillation problem in discrete time. (English summary) **2001h:60128**
**Dmitrienko, A. A.** *see* **Vexler, A. A., 2001d:62080**
**Ennadifi, Gratiane** Invariance principles for paced record times and applications. (English summary) **2001g:60114**
**Erhardsson, Torkel** On stationary renewal reward processes where most rewards are zero. (English summary) **2001h:60027**
**Földes, Antónia** *see* **Csáki, Endre et al., 2001e:60089**
**Foss, S. G.** *see* **Borovkov, Aleksandr Alekseevich, 2001g:60107**
**Gatzouras, Dimitrios** On the lattice case of an almost-sure renewal theorem for branching random walks. (English summary) **2001k:60118**
**Huang, Wen-Jang** (*with* Chang, Wen-Ching) On a study of the exponential and Poisson characteristics of the Poisson process. (English summary) **2001a:60056**
**Iosifescu, Marius** A generalization of semi-Markov processes. (English summary) **2001g:60224**
**Lin, X. Sheldon** (*with* Willmot, Gordon E.) The moments of the time of ruin, the surplus before ruin, and the deficit at ruin. (English summary) **2001g:62059**
— *see also* **Willmot, Gordon E., 2001j:60037**
**Liu, Wei[4]** (*with* Wang, Nan) Asymptotic expansions for the moments of a randomly stopped average: extension and applications of a result of Aras and Woodroofe. (English summary)
**Pipiras, Vladas** (*with* Taqqu, Murad S.) The limit of a renewal reward process with heavy-tailed rewards is not a linear fractional stable motion. (English summary) **2001g:60111**
**Renshaw, Eric** *see* **Dai, Yong Long, 2001h:60128**
**Révész, Pál** *see* **Csáki, Endre et al., 2001e:60089**
**Robinson, N. I.** Residue series for the generalised gamma renewal function. (*see* **2001d:00032**)
**Shi, Zhan** *see* **Csáki, Endre et al., 2001e:60089**
**Sugakova, E. V.** Rényi's theorem and a nonhomogeneous renewal process. (Ukrainian. Ukrainian summary)
**Taqqu, Murad S.** *see* **Pipiras, Vladas, 2001g:60111**
**Tu, Fengsheng** *see* **Yue, Dequan**
**Vexler, A. A.** (*with* Dmitrienko, A. A.) Approximations to expected stopping times with applications to sequential estimation. (English summary) **2001d:62080**
**Wang, Nan** *see* **Liu, Wei[4]**
**Willmot, Gordon E.** (*with* Lin, X. Sheldon) ★ Lundberg approximations for compound distributions with insurance applications. (English summary) **2001j:60037**
— *see also* **Lin, X. Sheldon, 2001g:62059**
**Yue, Dequan** (*with* Tu, Fengsheng) Characterizations of the geometric distribution related to a discrete renewal process. (English and Chinese summaries)
**Zhang, Han Qin** On a weighted embedding for generalized pontograms. (English summary) **2001c:60040**

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**Lecture Notes in Statistics** *see* **Willmot, Gordon E., 2001j:60037**

## 60K10 Applications (reliability, demand theory, etc.)

**Abouammoh, A. M.** (*with* Ahmad, Rashid; Khalique, A.) On new renewal better than used classes of life distributions. (English summary) **2001b:60107**
**Ahmad, Rashid** *see* **Abouammoh, A. M. et al., 2001b:60107**
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**Birolini, Alessandro** *see* **Kovalenko, Igor Nikolaevich, 2001h:60156**
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**Chetouani, H.** (*with* Korolyuk, Vladimir Semenovich) Stationary distribution for repairable systems. (English summary) **2001i:60144**
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**Di Crescenzo, Antonio** A probabilistic analogue of the mean value theorem and its applications to reliability theory. (English summary) **2001c:60141**
**Dutta, K.** (*with* Bhowal, M. K.) Imperfect switching in cold standby redundant system with dissimilar distribution for a reliability physics model. (English summary)
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**Finkel'shtein, M. S.** Modeling a process of non-ideal repair. (English summary) (*see* **2001c:62004**)
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**Hayakawa, Yu** (*with* Telfar, G.) Mixed Poisson-type processes with application in software reliability. (English summary) (*see* **2001a:90008**)
**He, Sheng Hong** *see* **Ma, Bang Qing**
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**Jensen, Uwe[1]** *see* **Aven, Terje, 2001a:60103**
**Ke, Jun Bin** (*with* Lin, Sheng Guang) Structural reliability for $Y\varphi(t)$-composition inhomogeneous Poisson processes. (Chinese. English and Chinese summaries)
**Khalique, A.** *see* **Abouammoh, A. M. et al., 2001b:60107**
**Kolowrocki, Krzysztof** An asymptotic approach to multistate systems reliability evaluation. (English summary) **2001e:60186**
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**Kovalenko, A. I.** Analysis of the reliability of a three-component system with renewal. (English summary) **2001m:60203**
**Kovalenko, Igor Nikolaevich** (*with* Birolini, Alessandro) Uniform exponential bounds for the pointwise availability of a repairable system. (English summary) **2001h:60156**
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**Kushnir, A. O.** The first failure of a highly reliable system of two elevators. (Ukrainian. Ukrainian summary)
**Lee, Eui Yong** (*with* Seoh, Munsup) A repair process with embedded Markov chain. (English summary)
**Lenin, R. B.** *see* **Parthasarathy, P. R.**
**Levine, Richard A.** *see* **Fan, Juanjuan et al., 2001i:60145**
**Li, Haijun** Stochastic models for dependent life lengths induced by common pure jump shock environments. (English summary) **2001e:60187**
**Lin, Daming** (*with* Zuo, Ming J.) Reliability evaluation of a linear $k$-within-$(r, s)$-out-of-$(m, n)$ : $F$ lattice system. (English summary)
**Lin, Sheng Guang** *see* **Ke, Jun Bin**
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**Nanda, Asok K.** Generalized ageing classes in terms of Laplace transforms. (English summary) **2001i:60146**
**Neuts, Marcel F.** (*with* Pérez-Ocón, Rafael; Torres-Castro, Inmaculada) Repairable models with operating and repair times governed by phase type distributions. (English summary) **2001g:60222**
**Parthasarathy, P. R.** (*with* Lenin, R. B.) On the exact transient availability of parallel redundant repairable systems with quadratic transition rates. (English summary)
**Pellerey, Franco** (*with* Shaked, Moshe; Zinn, Joel) Nonhomogeneous Poisson processes and logconcavity. (English summary) **2001g:60223**
**Pérez-Ocón, Rafael** *see* **Neuts, Marcel F. et al., 2001g:60222**
**Sabnis, S. V.** (*with* Balu, Mini N.) A note on two preservation properties of homogeneous Poisson shock models. (English and Italian summaries)
**Schmidli, Hanspeter** *see* **Asmussen, Søren et al., 2001b:60108**
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**Sreehari, M.** A reliability model in random environment. (English summary)
**Svishchuk, A. V.** ★ Random evolutions and their applications. (English summary) **2001m:60204**
**Telfar, G.** *see* **Hayakawa, Yu, (2001a:90008)**
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**Vanderperre, E. J.** Long-run availability of a two-unit standby system subjected to a

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**Wilson, Simon P.** Failure models indexed by time and usage. (English summary) (*see* **2001c:62004**)
**Yue, De Quan** (*with* Cao, Jinhua) Some results on the residual life at random time. (English summary) **2001j:60157**
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**Boland, Philip J.** (*with* Papastavridis, Stavros) Consecutive $k$ out of $n$:$F$ systems with cycle $k$. (English summary) **2001i:62107**
**Boutsikas, Michael V.** (*with* Koutras, Markos V.) Generalized reliability bounds for coherent structures. (English summary) **2001d:60014**
**Chang, Cheng-Chang** *see* **Su, Chao-Ton et al., 2001f:90015**
**Chen, Dong Qing** *see* **Yin, Guo Ju et al.**
**Cox, David R.** Some remarks on failure-times, surrogate markers, degradation, wear, and the quality of life. (English summary) **2001m:62118**
**Cox, J. Theodore** (*with* Schinazi, Rinaldo B.) A stochastic spatial process to model the persistence of sickle-cell disease. (English summary) **2001a:92018**
**Csenki, Attila** Asymptotics for renewal-reward processes with retrospective reward structure. (English summary) **2001k:60127**
**Dacre, Marcus** (*with* Glazebrook, K. D.; Niño-Mora, José) The achievable region approach to the optimal control of stochastic systems. (English summary) **2001i:60152**
**El-Neweihi, Emad** (*with* Sinha, Bikas K.) Reliability estimation based on ranked set sampling. (English summary) **2001h:62181**
**Englund, Erling** Perturbed renewal equations with applications to $M/M$ queueing systems. I. (English summary)
**Gang, Qin Guo** *see* **Yin, Guo Ju et al.**
**Gertsbakh, Ilya** ★ Reliability theory. (English summary) **2001h:90002**
**Glazebrook, K. D.** *see* **Dacre, Marcus et al., 2001i:60152**
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**Gut, Allan** (*with* Hüsler, Jürg) Extreme shock models. (English summary) **2001j:60087**
**Højgaard, Bjarne** *see* **Asmussen, Søren, 2001d:62101**
**Hou, Chao Zhen** *see* **Xu, Yong et al.**
**Hüsler, Jürg** *see* **Gut, Allan, 2001j:60087**
**Jiang, Tao**[3] *see* **Tang, Qi He et al., 2001k:60040**
**Kahle, Waltraud** (*with* Wendt, Heide) Statistical analysis of damage processes. (English summary) **2001e:62087**
**Kirilyuk, Vladimir** On maximum reliability problem in parallel-series systems with two failure modes. (English summary)
**Korolyuk, Vladimir Semenovich** (*with* Limnios, N.) Evolutionary systems in an asymptotic split phase space. (English summary) **2001e:60071**
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**Lam, Yeh** (*with* Ng, Hon Keung Tony) A general model for consecutive-$k$-out-of-$n$:$F$ repairable system with exponential distribution and $(k-1)$-step Markov dependence. (English summary) **2001i:90025**
**Li, Haijun** (*with* Xu, Susan H.) Stochastic bounds and dependence properties of survival times in a multicomponent shock model. (English summary) **2001i:60027**
**Lillo, Rosa E.** (*with* Nanda, Asok K.; Shaked, Moshe) Some shifted stochastic orders. (English summary) **2001g:60041**
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**Luo, Li** *see* **Xu, Yong et al.**
**Ma, Chunsheng** Convex orders for linear combinations of random variables. (English summary) **2001a:60023**
**Mi, Jie** Average number of events and average reward. (English summary) **2001f:60097**
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**Nakagawa, Toshio** *see* **Qian, Cun-Hua et al., 2001c:90023** *and* **Satow, T. et al., (2001a:90008)**
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**Nanda, Asok K.** *see* **Lillo, Rosa E. et al., 2001g:60041** *and* **2001m:60036**
**Ng, Hon Keung Tony** *see* **Lam, Yeh, 2001i:90025**
**Niño-Mora, José** *see* **Dacre, Marcus et al., 2001i:60152**
**Ohnishi, Masamitsu** *see* **Segawa, Yoshiyuki, (2001a:90008)**
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**Park, Taekeun** (*with* Uematsu, Kouyu) The optimal replacement models with random cost depending on age. (English summary) **2001g:90023**
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**Pham, Hoang** (*with* Wang, Hongzhou) Optimal $(\tau, T)$ opportunistic maintenance of a $k$-out-of-$n$:G system with imperfect PM and partial failure. (English summary) **2001a:90018**
**Piau, Didier** Quasi-renewal estimates. (English summary) **2001j:60155a**
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**Qian, Cun-Hua** (*with* Nakamura, Syouji; Nakagawa, Toshio) Replacement policies for cumulative damage model with maintenance cost. (English summary) **2001c:90023**
**Rekha, A.** *see* **Krishnamoorthy, A.**
**Sankaran, P. G.** (*with* Unnikrishnan Nair, N.) Conditional mean residual life functions. (English summary)
**Satow, T.** (*with* Teramoto, K.; Nakagawa, Toshio) Optimal replacement policy for a cumulative damage model with time deterioration. (English summary) (*see* **2001a:90008**)
**Scarsini, Marco** (*with* Shaked, Moshe) On the value of an item subject to general repair or maintenance. (English summary) **2001b:90019**
**Schinazi, Rinaldo B.** *see* **Cox, J. Theodore, 2001a:92018**
**Segawa, Yoshiyuki** (*with* Ohnishi, Masamitsu) The average optimality of a repair-limit replacement policy. (English summary) (*see* **2001a:90008**)
**Sericola, Bruno** Occupation times in Markov processes. (English summary) **2001i:60120**
**Sethi, Suresh P.** (*with* Zhang, Han Qin; Zhang, Qing[1]) Hierarchical production control in a stochastic $N$-machine flowshop with long-run average cost. (English summary) **2001j:90026**
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**Sinha, Bikas K.** *see* **El-Neweihi, Emad, 2001h:62181**
**Skoulakis, Georgios** A general shock model for a reliability system. (English summary) **2001m:90032**
**Su, Chao-Ton** (*with* Wu, Sung-Chi; Chang, Cheng-Chang) Multiaction maintenance subject to action-dependent risk and stochastic failure. (English summary) **2001f:90015**
**Su, Chun** *see* **Tang, Qi He et al., 2001k:60040**
**Tang, Qi He** (*with* Su, Chun; Jiang, Tao[3]; Zhang, Jin Song) Large deviations for heavy-tailed random sums in compound renewal model. (English summary) **2001k:60040**
**Teramoto, K.** *see* **Satow, T. et al., (2001a:90008)**
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**Uematsu, Kouyu** *see* **Park, Taekeun, 2001g:90023**
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**Ushakov, Igor** Reliability: past, present, future. (English summary) (*see* **2001c:62004**)
**Wang, Hongzhou** *see* **Pham, Hoang, 2001a:90018**
**Wendt, Heide** *see* **Kahle, Waltraud, 2001e:62087**
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**Yam, Richard C. M.** *see* **Lin, Daming et al., 2001m:90031**
**Yin, Guo Ju** (*with* Zhang, Li Ping; Gang, Qin Guo; Chen, Dong Qing; Miao, Shu Shi) A fuzzy reliability analysis for systems. (Chinese. English and Chinese summaries)
**Zhang, Han Qin** *see* **Sethi, Suresh P. et al., 2001j:90026**
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## 60K15 Markov renewal processes, semi-Markov processes

**Anisimov, V. V.** Diffusion approximation in switching stochastic models and its applications. (English summary) **2001c:60142**
— Diffusion approximation for processes with semi-Markov switches and applications in queueing models. (English summary) **2001i:60147**
— Asymptotic analysis of reliability for switching systems in light and heavy traffic conditions. (English summary) **2001e:60188**
**Ball, Frank** Central limit theorems for multivariate semi-Markov sequences and processes, with applications. (English summary) **2001i:60148**
**Ělelko, Ya. Ī.** Some refinements of limit theorems for semi-Markov processes with an arbitrary state space. (Ukrainian. Ukrainian summary)
**El-Sayed, Khaled M. F.** (*with* Perros, Harry G.) The superposition of discrete-time Markov renewal processes with an application to statistical multiplexing of bursty traffic sources. (English summary)
**Goncharova, S. Ya.** *see* **Svishchuk, A. V.**
**Gyllenberg, Mats** (*with* Silvestrov, Dmitrii S.) Quasi-stationary phenomena for semi-Markov processes. (English summary) **2001i:60149**
**Hou, Zhen Ting** *see* **Tang, You Rong et al., 2001g:60225**
**Iosifescu, Marius** A generalization of semi-Markov processes. (English summary) **2001g:60224**
**Khaniev, Tahir A.** Some asymptotic results for ergodic distribution of the semi-Markovian random walk with special barrier. (English summary)
**Korolyuk, Vladimir Semenovich** ★ Стохастичні моделі систем. (Ukrainian. Ukrainian summary) [Stochastic models of systems]
**Liu, Zai Ming** *see* **Tang, You Rong et al., 2001g:60225**
**Perros, Harry G.** *see* **El-Sayed, Khaled M. F.**
**Pyke, Ronald** The solidarity of Markov renewal processes. (English summary) **2001f:60098**
**Silvestrov, Dmitrii S.** *see* **Gyllenberg, Mats, 2001i:60149**
**Stefanov, Valeri T.** Markov renewal processes and exponential families. (English summary) **2001j:60158**
**Svishchuk, A. V.** (*with* Goncharova, S. Ya.) Stability of semi-Markov risk processes in a scheme of normal deviations. (Ukrainian. Ukrainian summary)
— Stochastic stability and optimal control of semi-Markov risk processes in insurance mathematics. (English summary) **2001j:60159**
**Tang, You Rong** (*with* Liu, Zai Ming; Hou, Zhen Ting) Integral random functions of semi-Markov processes. (Chinese. Chinese summary) **2001g:60225**

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**Dai, Yong Long** (*with* Renshaw, Eric) The Markov oscillation problem in discrete time. (English summary) **2001h:60128**

**Englund, Erling** Perturbed renewal equations with applications to $M/M$ queueing systems. I. (English summary)
**Gertsbakh, Ilya** (*with* Spungin, I.) Product-type estimator of convolutions. (English summary) (*see* **2001a:60002**)
**Gusak, D. V.** On modifications of risk processes. (Ukrainian. Ukrainian summary)
— On a generalized semicontinuous integer-valued Poisson process with reflection. (Ukrainian. Ukrainian summary)
**Hou, Zhen Ting** *see* **Liu, Wan Rong et al.**
**Iltis, Michael** Sharp asymptotics of large deviations for general state-space Markov-additive chains in $\mathbf{R}^d$. (English summary) **2001b:60040**
**Kharlamov, B. P.** Algorithms of stochastic activity and problems of reliability. (English summary) (*see* **2001c:62004**)
**Levy, Joshua B.** (*with* Taqqu, Murad S.) Renewal reward processes with heavy-tailed inter-renewal times and heavy-tailed rewards. (English summary) **2001f:60023**
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**Liu, Zai Ming** *see* **Liu, Wan Rong et al.**
**Lukīn, O. E.** *see* **Svishchuk, A. V.**
**Renshaw, Eric** *see* **Dai, Yong Long, 2001h:60128**
**Roberts, Gareth O.** (*with* Tweedie, Richard) Corrigendum to: "Bounds on regeneration times and convergence rates for Markov chains" [Stochastic Process. Appl. **80** (1999), no. 2, 211–229; MR 2000b:60171]. **Shamsuddinov, B. R.** On the consistency of a kernel estimator of the distribution density of the sojourn time in a fixed state for semi-Markov processes. (*see* **2001k:00025**)
**Smythe, R. T.** The Boyer-Moore-Horspool heuristic with Markovian input. (English summary) **2001i:68177**
**Spungin, I.** *see* **Gertsbakh, Ilya, (2001a:60002)**
**Svishchuk, A. V.** Semi-Markov random evolutions: some ideas, methods and results. (English summary) **2001g:60157**
— (*with* Lukīn, O. E.) Interpolation and extrapolation of random evolution processes. (Ukrainian. Ukrainian summary)
— ★ Random evolutions and their applications. (English summary) **2001m:60204**
**Taqqu, Murad S.** *see* **Levy, Joshua B., 2001f:60023**
**Tweedie, Richard** *see* **Roberts, Gareth O.**

## 60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90Bxx]

**Abdel-Hameed, Mohamed** Applications of semi-Markov processes in reliability and maintenance. (English summary) (*see* **2001a:60002**)
**Butler, Ronald W.** Reliabilities for feedback systems and their saddlepoint approximation. (English summary) **2001m:60205**
**Chao, Xiuli** (*with* Miyazawa, Masakiyo) Queueing networks with instantaneous movements: a unified approach by quasi-reversibility. (English summary) **2001h:60157**
**Cocozza-Thivent, Christiane** (*with* Roussignol, Michel) A general framework for some asymptotic reliability formulas. (English summary) **2001j:60160**
— A model for a dynamic preventive maintenance policy. (English summary) **2001k:60129**
**Cottrell, M.** (*with* Turova, Tatyana S.) Use of an hourglass model in neuronal coding. (English summary) **2001a:60104**
**Iwunor, Charles C. O.** On the variance of the grade sizes in a semi-Markovian manpower model with Poisson recruitment. (English summary)
**Last, Günter** (*with* Stamer, H.) Recurrence and transience properties of some neural networks: an approach via fluid limit models. (English summary) **2001e:60189**
**McClean, S. I.** *see* **Ugwuowo, F. I.**
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**Papadopoulou, Aleka A.** (*with* Vassiliou, Panagiotis C. G.) Continuous time nonhomogeneous semi-Markov systems. (English summary) (*see* **2001a:60002**)
**Pitts, Susan M.** Approximations for semi-Markov single ion channel models. (English summary) **2001j:60161**
**Roussignol, Michel** *see* **Cocozza-Thivent, Christiane, 2001j:60160**
**Stamer, H.** *see* **Last, Günter, 2001e:60189**
**Tsakiridou, Helena** *see* **Vassiliou, Panagiotis C. G., (2001a:60002)**
**Tsaklidis, George M.** The stress tensor of the closed semi-Markov system. Energy and entropy. (English summary) (*see* **2001a:60002**)
**Turova, Tatyana S.** *see* **Cottrell, M., 2001a:60104**
**Ugwuowo, F. I.** (*with* McClean, S. I.) Modelling heterogeneity in a manpower system: a review. (English summary)
**Vassiliou, Panagiotis C. G.** (*with* Tsakiridou, Helena) The perturbed non-homogeneous semi-Markov system. (English summary) (*see* **2001a:60002**)
— *see also* **Papadopoulou, Aleka A., (2001a:60002)**
**Zachary, Stan** Dynamics of large uncontrolled loss networks. (English summary) **2001e:60190**

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**Anīsīmov, V. V.** Diffusion approximation in switching stochastic models and its applications. (English summary) **2001c:60142**
— Diffusion approximation for processes with semi-Markov switches and applications in queueing models. (English summary) **2001i:60147**
— Asymptotic analysis of reliability for switching systems in light and heavy traffic conditions. (English summary) **2001e:60188**
**Ball, Frank** Central limit theorems for multivariate semi-Markov sequences and processes, with applications. (English summary) **2001i:60148**
**Bloch-Mercier, Sophie** Stationary availability of a semi-Markov system with random maintenance. (English summary) **2001i:90024**
**Borovkov, Aleksandr Alekseevich** ★ Эргодичность и устойчивость случайных процессов. (Russian. Russian summary) [Ergodicity and stability of stochastic processes] **2001g:60003**
**Brown, Timothy C.** (*with* Weinberg, Graham V.; Xia, Aihua) Removing logarithms from Poisson process error bounds. (English summary) **2001g:60112**
**Chang, Chin Fu** *see* **Yeh, Ping-Cheng, 2001e:60202**
**Chang, I-Shou** (*with* Hsiung, Chao A.; Wu, Su-Mei) Estimation in a proportional hazard model for semi-Markov counting process. (English summary) **2001j:62121**
**Gajrat, A.** (*with* Hordijk, Arie) Fluid approximation of a controlled multiclass tandem network. (English summary) **2001h:90013**
**Gámiz-Pérez, M. Luz** *see* **Pérez-Ocón, Rafael et al., (2001a:60002)**
**Gertsbakh, Ilya** ★ Reliability theory. (English summary) **2001h:90002**
**Gideon, Rudy** (*with* Pyke, Ronald) Markov renewal modelling of Poisson traffic at intersections having separate turn lanes. (English summary) (*see* **2001a:60002**)
**Guo, Renkuan** *see* **Love, C. E. et al., 2001f:90014**
**Harrison, Peter G.** (*with* Patel, Naresh M.; Pitel, Edwige) Reliability modelling using $G$-queues. (English summary) **2001h:90019**
**Hordijk, Arie** *see* **Gajrat, A., 2001h:90013**
**Hsiung, Chao A.** *see* **Chang, I-Shou et al., 2001j:62121**
**Jadda, Zoubida** (*with* Pellaumail, Jean) Basic processes in ATM networks. (English summary) **2001g:90019**
**Kharlamov, B. P.** Continuous semi-Markov models for chromatography. (English summary) (*see* **2001a:60002**)
**Klutke, Georgia-Ann** *see* **Yang, Yoonjung, 2001e:90018**
**Korolyuk, Vladimir Semenovich** (*with* Līmnīos, N.) Evolutionary systems in an asymptotic split phase space. (English summary) **2001e:60071**
**Kowada, Masashi** *see* **Uematsu, Kouyu et al., 2001h:90022**
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**Schlaifer, Robert** *see* **Raiffa, Howard, 2001h:62005**
**Shiryaev, Albert N.** (*with* Spokoĭnyĭ, V. G.) ★ Statistical experiments and decisions. **2001h:62006**
**Spokoĭnyĭ, V. G.** *see* **Shiryaev, Albert N., 2001h:62006**
**Sprott, D. A.** ★ Statistical inference in science. (English summary) **2001e:62001**
**(Suppes, Patrick)** *see* **Rouanet, Henri et al., 2001j:62003**
**Therneau, Terry M.** (*with* Grambsch, Patricia M.) ★ Modeling survival data: extending the Cox model. **2001c:62003**
**Vining, G. Geoffrey** *see* **Montgomery, Douglas C. et al., 2001j:62002**

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**Azizov, Aziz Mustafaevich** (*with* Kuritsyn, A. G.; Nikitenko, V. G.) ★ Основы прикладной математики. (Russian. Russian summary) [Fundamentals of applied mathematics]
**(Clyde, Merlise)** *see* **Hoeting, Jennifer A. et al., 2001a:62033**
**(Draper, David)** *see* **Hoeting, Jennifer A. et al., 2001a:62033**
**Evans, Merran** (*with* Hastings, Nicholas; Peacock, Brian) ★ Statistical distributions. (English summary)
**(George, Edward I.)** *see* **Hoeting, Jennifer A. et al., 2001a:62033**
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**Madigan, David** *see* **Hoeting, Jennifer A. et al., 2001a:62033**
**Nikitenko, V. G.** *see* **Azizov, Aziz Mustafaevich et al.**
**Peacock, Brian** *see* **Evans, Merran et al.**
**(Peña, Daniel)** *see* **Course in time series analysis, 2001k:62110**
**Raftery, Adrian E.** *see* **Hoeting, Jennifer A. et al., 2001a:62033**
**Rohatgi, Vijay K.** (*with* Saleh, A. K. Md. Ehsanes) ★ An introduction to probability and statistics. **2001g:60002**
**Ross, Sheldon M.** ★ Introduction to probability models. (English summary) **2001b:60002**
**Saleh, A. K. Md. Ehsanes** *see* **Rohatgi, Vijay K., 2001g:60002**
**Salsburg, David** ★ The lady tasting tea. (English summary) **2001j:62005**
**(Tiao, George C.)** *see* **Course in time series analysis, 2001k:62110**
**(Tsay, Ruey S.)** *see* **Course in time series analysis, 2001k:62110**
**Volinsky, Chris T.** *see* **Hoeting, Jennifer A. et al., 2001a:62033**

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**Course in time series analysis** ★ A course in time series analysis. **2001k:62110**

## 62–02 Research exposition (monographs, survey articles)

**Chen, Jie[3]** (*with* Gupta, Arjun K.) ★ Parametric statistical change point analysis. (English summary) **2001g:62001**
**Cheng, Chi-Lun** (*with* Van Ness, John W.) ★ Statistical regression with measurement error. (English summary) **2001k:62001**
**Cramér, Harald** ★ Mathematical methods of statistics. (English summary) **2001k:62002**
**Gao, Jiti** *see* **Härdle, Wolfgang et al., 2001j:62004**
**Gupta, Arjun K.** *see* **Chen, Jie[3], 2001g:62001**
**Härdle, Wolfgang** (*with* Liang, Hua; Gao, Jiti) ★ Partially linear models. (English summary) **2001j:62004**
**Liang, Hua** *see* **Härdle, Wolfgang et al., 2001j:62004**
**Van Ness, John W.** *see* **Cheng, Chi-Lun, 2001k:62001**

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**(Aries, A. B.)** *see* **Liptser, Robert Sh., 2001k:60001a** *and* **2001k:60001b**
**Dutter, Rudolf** *see* **Ploner, Alexander, 2001m:86018**
**Gupta, Arjun K.** (*with* Nagar, Daya K.) ★ Matrix variate distributions. **2001d:62055**
**Liptser, Robert Sh.** (*with* Shiryaev, Albert N.) ★ Statistics of random processes. I. (English summary) **2001k:60001a**
— (*with* Shiryaev, Albert N.) ★ Statistics of random processes. II. (English summary) **2001k:60001b**
**Nagar, Daya K.** *see* **Gupta, Arjun K., 2001d:62055**
**Ploner, Alexander** (*with* Dutter, Rudolf) New directions in geostatistics. (English summary) **2001m:86018**
**Shiryaev, Albert N.** *see* **Liptser, Robert Sh., 2001k:60001a** *and* **2001k:60001b**

## 62–03 Historical (must also be assigned at least one classification number from Section 01)

**Farebrother, Richard William** ★ Fitting linear relationships. (English summary) **2001f:62002**
**(Fisher, Ronald Aylmer)** *see* **Rao, Calyampudi Radhakrishna**
**Hald, Anders** Studies in the history of probability and statistics. XLVII. Pizzetti's contributions to the statistical analysis of normally distributed observations, 1891. (English summary) **2001d:62001**
**Lehmann, E. L.** "Student" and small-sample theory. (English summary) **2001a:62003**
**Pfanzagl, Johann** (*with* Sheĭnin, O. B.) Studies in the history of probability and statistics. XLIV. A forerunner of the $t$-distribution. (English summary) **2001b:62001**
**(Pizzetti, P.)** *see* **Hald, Anders, 2001d:62001**
**Rao, Calyampudi Radhakrishna** R. A. Fisher: the founder of modern statistics [1173416]. (English summary)
**Salsburg, David** ★ The lady tasting tea. (English summary) **2001j:62005**
**Sheĭnin, O. B.** *see* **Pfanzagl, Johann, 2001b:62001**
**Stigler, Stephen M.** ★ Statistics on the table. (English summary) **2001g:62002**

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**Atkinson, Anthony C.** (*with* Fedorov, Valerii V.) Some history leading to design criteria for Bayesian prediction. (English summary) (*see* **2001k:62003**)
**Bingham, Nicholas H.** Studies in the history of probability and statistics. XLVI. Measure into probability: from Lebesgue to Kolmogorov. (English summary) **2001f:60001**
**Fedorov, Valerii V.** *see* **Atkinson, Anthony C., (2001k:62003)**
**Hanif, Muhammad** Design- and model-based sampling inference. (English summary)
**Rathie, Pushpa Narayan** Statistics in the XXth century: general aspects and applications. (Portuguese. Portuguese summary) **2001j:01041**
**Saxl, Ivan** *see* **Seidler, Jan et al., 2001d:01035**
**Seidler, Jan** (*with* Vondráček, Jiří; Saxl, Ivan) The life and work of Zbyněk Šidák (1933–1999). (English summary) **2001d:01035**
**(Šidák, Zbyněk)** *see* **Seidler, Jan et al., 2001d:01035**
**Vondráček, Jiří** *see* **Seidler, Jan et al., 2001d:01035**

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## 62–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 62–04

**Dickson, David C. M.** *see* **Sundt, Bjørn**

**Ivanov, I. I.** The automatic centering method in calculating power sums in problems of mathematical statistics. (Russian. English summary)

**Sundt, Bjørn** (*with* Dickson, David C. M.) Comparison of methods for evaluation of the $n$-fold convolution of an arithmetic distribution. (English, French and German summaries)

## 62–06 Proceedings, conferences, collections, etc.

**(Atkinson, Anthony C.)** *see* **Optimum design, 2001k:62003**
**(Balakrishnan, Narayanaswamy)** *see* **Advances in stochastic simulation methods, 2001d:62002**
**(Barnett, William A.)** *see* **Nonlinear econometric modeling in time series, 2001e:62003**
**(Basawa, Ishwar V.)** *see* **Proceedings: Symposium on Estimating Functions, 2001m:62003**
**(Bernardo, José Miguel)** *see* **Bayesian methods in the sciences, 2001f:62003**
**(Bethlehem, Jelke G.)** *see* **COMPSTAT, 2001j:62006**
**(Bogacka, Barbara)** *see* **Optimum design, 2001k:62003**
**(Chan, Wai-Sum)** *see* **Statistics and finance, 2001k:62004**
**(De Vylder, Floriaan)** *see* **Liber amicorum for Etienne De Vylder on the occasion of his 60th birthday**
**(Draper, Norman R.)** *see* **Applied regression analysis, 2001e:62002**
**(Dwivedi, T. D.)** *see* **Special volume in honour of the 80th birthday of Professor C. R. Rao, 2001j:62007**
**(Ermakov, Sergeĭ Mikhallovich)** *see* **Advances in stochastic simulation methods, 2001d:62002**
**(Flournoy, Nancy)** *see* **New developments and applications in experimental design, 2001m:62002**
**(Franke, Jürgen)** *see* **Measuring risk in complex stochastic systems, 2001d:62005**
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**(Godambe, V. P.)** *see* **Proceedings: Symposium on Estimating Functions, 2001m:62003**
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**(Härdle, Wolfgang)** *see* **Measuring risk in complex stochastic systems, 2001d:62005**
**(van der Heijden, Peter G. M.)** *see* **COMPSTAT, 2001j:62006**
**(Hendry, David Forbes)** *see* **Nonlinear econometric modeling in time series, 2001e:62003**
**(Heshmati, Almas)** *see* **Conference: Panel Data, 2001f:62004** *and* **2001f:62005**
**(Higuchi, Tomoyuki)** *see* **Nonlinear non-Gaussian models and related filtering methods**
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**(Hušková, Marie)** *see* **Workshop: Perspectives in Modern Statistical Inference: Parametrics, Semi-parametrics, Non-parametrics, 2001i:62001**
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**(Dose, Volker)** *see* **Maximum entropy and Bayesian methods, 2001f:00026**
**(Fischer, Rainer)** *see* **Maximum entropy and Bayesian methods, 2001f:00026**
**(Fitzgerald, W. J.)** *see* **Nonlinear and nonstationary signal processing, 2001m:00024**
**(Gil, María Angeles)** *see* **Fuzzy random variables**
**(Hoaglin, David C.)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**
**(Hsiao, Cheng)** *see* **Analysis of panels and limited dependent variable models, 2001a:62132**
**Kadane, Joseph B.** (*with* Schervish, Mark J.; Seidenfeld, Teddy) ★ Rethinking the foundations of statistics. **2001k:62005**
**(Lahiri, Kajal)** *see* **Analysis of panels and limited dependent variable models, 2001a:62132**
**(Lee, Lung-Fei)** *see* **Analysis of panels and limited dependent variable models, 2001a:62132**
**(von der Linden, Wolfgang)** *see* **Maximum entropy and Bayesian methods, 2001f:00026**
**(Maddala, G. S.)** *see* **Analysis of panels and limited dependent variable models, 2001a:62132**
**(Mishra, Satya Narayan)** *see* **Statistical inference, combinatorics and related areas, 2001e:00025**
**(Mosteller, Frederick)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**
**(Murthy, D. N. P.)** *see* **Stochastic models in engineering, technology, and management, 2001a:90008**
**(Osaki, Shunji)** *see* **Stochastic models in engineering, technology, and management, 2001a:90008**
**(Pesaran, M. Hashem)** *see* **Analysis of panels and limited dependent variable models, 2001a:62132**
**(Preuss, Roland)** *see* **Maximum entropy and Bayesian methods, 2001f:00026**
**(Rao, Calyampudi Radhakrishna)** *see* **Bioenvironmental and public health statistics, 2001c:62002**
**Schervish, Mark J.** *see* **Kadane, Joseph B. et al., 2001k:62005**
**Seidenfeld, Teddy** *see* **Kadane, Joseph B. et al., 2001k:62005**
**(Sen, Pranab Kumar[1])** *see* **Bioenvironmental and public health statistics, 2001c:62002**
**(Sharma, Bhu Dev)** *see* **Statistical inference, combinatorics and related areas, 2001e:00025**
**(Skyrms, Brian)** *see* **Statistics and causation, 2001a:00009**
**(Smith, Richard L.)** *see* **Nonlinear and nonstationary signal processing, 2001m:00024**
**(Tukey, John W.)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**
**(Verrall, Richard)** *see* **Conference: Insurance: Mathematics and Economics**
**(Walden, Andrew T.)** *see* **Nonlinear and nonstationary signal processing, 2001m:00024**
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**(Young, Peter C.)** *see* **Nonlinear and nonstationary signal processing, 2001m:00024**

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**Bioenvironmental and public health statistics** ★ Bioenvironmental and public health statistics. **2001c:62002**
**Cambridge** ★ Nonlinear and nonstationary signal processing. **2001m:00024**
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**Fuzzy Theory and Technology** ★ Fuzzy random variables.
**Insurance: Mathematics and Economics** ★ {3rd IME Conference}.
**Statistical Inference, Combinatorics and Related Areas** ★ Statistical inference, combinatorics and related areas. **2001e:00025**
**Fuzzy random variables** ★ Fuzzy random variables.
**Garching** ★ Maximum entropy and Bayesian methods. **2001f:00026**
**Gold Coast** ★ Stochastic models in engineering, technology, and management. **2001a:90008**
**London** ★ {3rd IME Conference}.
**Marseille** ★ 19th "Rencontres Franco-Belges de Statisticiens". {19th "Franco-Belgian Meeting of Statisticians}
**Maximum entropy and Bayesian methods** ★ Maximum entropy and Bayesian methods. **2001f:00026**
**Meeting:**
**Statisticians** ★ 19th "Rencontres Franco-Belges de Statisticiens". {19th "Franco-Belgian Meeting of Statisticians}
**Nonlinear and nonstationary signal processing** ★ Nonlinear and nonstationary signal processing. **2001m:00024**
**Rethinking the foundations of statistics** *see* **Kadane, Joseph B. et al., 2001k:62005**
**Special Issue:**
**Statistics and causation** ★ Statistics and causation. **2001a:00009**
**Statistical inference, combinatorics and related areas** ★ Statistical inference, combinatorics and related areas. **2001e:00025**
**Statistics and causation** ★ Statistics and causation. **2001a:00009**
**Stochastic models in engineering, technology, and management** ★ Stochastic models in engineering, technology, and management. **2001a:90008**
**Understanding robust and exploratory data analysis** ★ Understanding robust and exploratory data analysis. **2001f:62007**
**Varanasi** ★ Statistical inference, combinatorics and related areas. **2001e:00025**
**Workshop:**
**Maximum Entropy and Bayesian Methods of Statistical Analysis** ★ Maximum entropy and Bayesian methods. **2001f:00026**
**Stochastic Models in Engineering, Technology, and Management** ★ Stochastic models in engineering, technology, and management. **2001a:90008**

## 62–07 Data analysis

**(Bock, Hans-Hermann)** *see* **Analysis of symbolic data, 2001g:62004**
**(Cooper, Gregory F.)** *see* **Spirtes, Peter et al., 2001j:62009**
**(Diday, Edwin)** *see* **Analysis of symbolic data, 2001g:62004**
**Glymour, Clark** *see* **Spirtes, Peter et al., 2001j:62009**
**(Heckerman, David)** *see* **Spirtes, Peter et al., 2001j:62009**
**(Hoaglin, David C.)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**
**(Meek, Christopher)** *see* **Spirtes, Peter et al., 2001j:62009**
**(Mosteller, Frederick)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**
**(Richardson, Thomas S.)** *see* **Spirtes, Peter et al., 2001j:62009**
**Scheines, Richard** *see* **Spirtes, Peter et al., 2001j:62009**
**Spirtes, Peter** (*with* Glymour, Clark; Scheines, Richard) ★ Causation, prediction, and search. (English summary) **2001j:62009**
**(Tukey, John W.)** *see* **Understanding robust and exploratory data analysis, 2001f:62007**

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**Analysis of symbolic data** ★ Analysis of symbolic data. **2001g:62004**
**Understanding robust and exploratory data analysis** ★ Understanding robust and exploratory data analysis. **2001f:62007**

### Items with secondary classifications in 62–07

**Aeberhard, S.** (*with* De Vel, O. Y.; Coomans, D. H.) New fast algorithms for error rate-based stepwise variable selection in discriminant analysis. (English summary) **2001h:65171**
**Beran, Rudolf** REACT scatterplot smoothers: superefficiency through basis economy. (English summary) **2001j:62049**
**Bonetti, M.** (*with* Vitale, Richard A.) Asymptotic behavior of a set-statistic. (English summary) **2001a:60037**
**Brown, K. Stephen** *see* **Sashegyi, Andreas I. et al.**
**Coomans, D. H.** *see* **Aeberhard, S. et al., 2001h:65171**
**De Vel, O. Y.** *see* **Aeberhard, S. et al., 2001h:65171**
**Farrell, Patrick J.** *see* **Sashegyi, Andreas I. et al.**

**Liu, Regina Y.** (*with* Parelius, Jesse M.; Singh, Kesar) Multivariate analysis by data depth: descriptive statistics, graphics and inference. (English summary) **2001m:62071**
**Parelius, Jesse M.** *see* **Liu, Regina Y. et al., 2001m:62071**
**Sashegyi, Andreas I.** (*with* Brown, K. Stephen; Farrell, Patrick J.) Estimation in an empirical Bayes model for longitudinal and cross-sectionally clustered binary data. (English and French summaries)
**Singh, Kesar** *see* **Liu, Regina Y. et al., 2001m:62071**
**Vitale, Richard A.** *see* **Bonetti, M., 2001a:60037**

## 62–09 Graphical methods

Items with secondary classifications in 62–09

**(Bock, Hans-Hermann)** *see* **Analysis of symbolic data, 2001g:62004**
**Bura, Efstathia** (*with* Gastwirth, Joseph L.) The binary regression quantile plot: assessing the importance of predictors in binary regression visually. (English summary) **2001m:62077**
**Chen, Chun-Houh** (*with* Chen, Jih-An) Interactive diagnositic plots for multidimensional scaling with applications is psychosis disorder data analysis. (English summary)
**Chen, Jih-An** *see* **Chen, Chun-Houh**
**Choi, Edwin** (*with* Hall, P. G.; Presnell, Brett) Rendering parametric procedures more robust by empirically tilting the model. (English summary) **2001d:62032**
**Cook, R. Dennis** (*with* Critchley, Frank) Identifying regression outliers and mixtures graphically. (English summary) **2001k:62080**
**Critchley, Frank** *see* **Cook, R. Dennis, 2001k:62080**
**(Diday, Edwin)** *see* **Analysis of symbolic data, 2001g:62004**
**Gastwirth, Joseph L.** *see* **Bura, Efstathia, 2001m:62077**
**Hall, P. G.** *see* **Choi, Edwin et al., 2001d:62032**
**Kim, Sung-Ho** Hyper-EM for large recursive models of categorical variables. (English summary) **2001e:62054**
**Koster, Jan T. A.** On the validity of the Markov interpretation of path diagrams of Gaussian structural equations systems with correlated errors. (English summary) **2001d:62064**
**Kuroki, Manabu** (*with* Miyakawa, Masami) Identifiability criteria for causal effects of joint interventions. (English summary) **2001a:62076**
**Lindkvist, Marie** Properties of added variable plots in Cox's regression model. (English summary) **2001b:62081**
**Liu, Regina Y.** (*with* Parelius, Jesse M.; Singh, Kesar) Multivariate analysis by data depth: descriptive statistics, graphics and inference. (English summary) **2001m:62071**
**Manatunga, Amita K.** *see* **Viswanathan, Bindu**
**Miyakawa, Masami** *see* **Kuroki, Manabu, 2001a:62076**
**Parelius, Jesse M.** *see* **Liu, Regina Y. et al., 2001m:62071**
**Presnell, Brett** *see* **Choi, Edwin et al., 2001d:62032**
**Singh, Kesar** *see* **Liu, Regina Y. et al., 2001m:62071**
**Viswanathan, Bindu** (*with* Manatunga, Amita K.) Diagnostic plots for assessing the frailty distribution in multivariate survival data. (English summary)
**Weiss, Robert E.** *see* **Zhang, Fan[1]**
**Zhang, Fan[1]** (*with* Weiss, Robert E.) Diagnosing explainable heterogeneity of variance in random-effects models. (English and French summaries)

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**Analysis of symbolic data** ★ Analysis of symbolic data. **2001g:62004**

## 62A01 Foundational and philosophical topics

**Barndorff-Nielsen, Ole E.** *L*-nonformation, *L*-ancillarity, and *L*-sufficiency. (Russian summary) **2001b:62002**
**Belcastro, A.** (*with* Guala, E.) Inductive $\lambda$-inference: characterization and properties. (Italian. English and Italian summaries)
**Berti, Patrizia** (*with* Fattorini, Lorenzo; Rigo, Pietro) Eliminating nuisance parameters: two characterizations. (English summary)
**Fattorini, Lorenzo** *see* **Berti, Patrizia et al.**
**Fortini, Sandra** (*with* Ladelli, Lucia; Regazzini, Eugenio) Exchangeability, predictive distributions and parametric models. (English summary) **2001i:62002**
**Freedman, David** Some issues in the foundation of statistics [MR 2000k:62004]. (English summary) (*see* **2001f:00010**)
— On the Bernstein-von Mises theorem with infinite-dimensional parameters. (English summary) **2001g:62005**
**García Nogales, Agustín** (*with* Oyola, José A.; Pérez, Paloma) On the equivalence of invariance and almost-invariance from a Bayesian point of view.
— (*with* Oyola, José A.; Pérez, Paloma) A weak notion of equivalence in Bayesian statistical theory.
**Guala, E.** *see* **Belcastro, A.**
**Kadane, Joseph B.** (*with* Schervish, Mark J.; Seidenfeld, Teddy) ★ Rethinking the foundations of statistics. **2001k:62005**
**Ladelli, Lucia** *see* **Fortini, Sandra et al., 2001i:62002**
**Matthews, Robert A. J.** Why should clinicians care about Bayesian methods? (English summary)
**Oyola, José A.** *see* **García Nogales, Agustín et al.**
**Pérez, Paloma** *see* **García Nogales, Agustín et al.**
**Regazzini, Eugenio** *see* **Fortini, Sandra et al., 2001i:62002**
**Rigo, Pietro** *see* **Berti, Patrizia et al.**
**Schervish, Mark J.** *see* **Kadane, Joseph B. et al., 2001k:62005**
**Seidenfeld, Teddy** *see* **Kadane, Joseph B. et al., 2001k:62005**

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**Rethinking the foundations of statistics** *see* **Kadane, Joseph B. et al., 2001k:62005**

Items with secondary classifications in 62A01

**Aickin, Mikel** Randomization, balance, and the validity and efficiency of design-adaptive allocation methods. (English summary)
**Bartha, Paul** (*with* Hitchcock, Christopher) No one knows the date or the hour: an unorthodox application of Rev. Bayes's theorem. (English summary) **2001b:03023**
**Bayarri, M. J.** (*with* Berger, James O.) Quantifying surprise in the data and model verification. (English summary) **2001c:62030**
**Berger, James O.** *see* **Bayarri, M. J., 2001c:62030**
**Bernardo, José Miguel** Nested hypothesis testing: the Bayesian reference criterion. (English summary) **2001h:62036**
**Bhapkar, Vasant P.** Estimating functions, partial sufficiency and $q$-sufficiency in the presence of nuisance parameters. (English summary) (*see* **2001m:62003**)
**Casadesus-Masanell, Ramon** (*with* Klibanoff, Peter; Ozdenoren, Emre) Maxmin expected utility through statewise combinations. (English summary) **2001b:91038**
**Celant, Giorgio** *see* **Pesarin, Fortunato**
**Coletti, Giulianella** (*with* Scozzafava, Romano) The role of coherence in eliciting and handling imprecise probabilities and its application to medical diagnosis. (English summary)
**Cutler, Colleen D.** Embedding theorems, scaling structures, and determinism in time series. (English summary) **2001h:62160**
**Drozhzheva, O. V.** Conjugacy of probability distributions in statistical problems. (English summary) (*see* **2001j:62008**)
**Efron, Bradley** R. A. Fisher in the 21st century [MR 99e:62004]. (English summary)
**Esteves, L. G.** (*with* Wechsler, S.; Leite, José Galvão; González-López, V. A.) Definettian consensus. (English summary)
**(Fisher, Ronald Aylmer)** *see* **Efron, Bradley** *and* **Rao, Calyampudi Radhakrishna**
**Fraser, D. A. S.** (*with* Reid, N.; Wu, Jianrong) Estimating functions and higher order significance. (English summary) (*see* **2001m:62003**)
**Fung, Wing-Kam** *see* **Geng, Zhi et al.**
**Geng, Zhi** (*with* Guo, Jianhua; Lau, Tai Shing; Fung, Wing-Kam) Confounding, homogeneity and collapsibility for causal effects in epidemiologic studies. (English summary)
**Glimm, James** (*with* Sharp, David H.) Stochastic methods for the prediction of complex multiscale phenomena. (English summary) **2001d:76067**
**Goldstein, Michael** Avoiding foregone conclusions: geometric and foundational analysis of paradoxes of finite additivity. (English summary) **2001m:60008**
**González-López, V. A.** *see* **Esteves, L. G. et al.**
**Guglielmi, Alessandra** (*with* Melilli, Eugenio) Approximating de Finetti's measures for partially exchangeable sequences. (English summary) **2001h:60059**
**Guo, Jianhua** *see* **Geng, Zhi et al.**
**Hitchcock, Christopher** *see* **Bartha, Paul, 2001b:03023**
**Kılıç, Berna Eden** John Venn's evolutionary logic of chance. **2001c:01020**
**Klibanoff, Peter** *see* **Casadesus-Masanell, Ramon et al., 2001b:91038**
**Lau, Tai Shing** *see* **Geng, Zhi et al.**
**Leite, José Galvão** *see* **Esteves, L. G. et al.**
**Macci, Claudio** Some further results about undominated Bayesian experiments. (English summary) **2001i:60003**
**Melilli, Eugenio** *see* **Guglielmi, Alessandra, 2001h:60059**
**Mumford, David** The dawning of the age of stochasticity. (English summary) **2001e:01004**
**Ozdenoren, Emre** *see* **Casadesus-Masanell, Ramon et al., 2001b:91038**
**Perlman, Michael D.** (*with* Wu, Lang) The emperor's new tests. (English summary) **2001a:62014**
**Pesarin, Fortunato** (*with* Celant, Giorgio) Some critical remarks about Bayesian conditional analysis. (Italian. English and Italian summaries)
**Rao, Calyampudi Radhakrishna** R. A. Fisher: the founder of modern statistics [1173416]. (English summary)
**Reid, N.** *see* **Fraser, D. A. S. et al., (2001m:62003)**
**Scozzafava, Romano** *see* **Coletti, Giulianella**
**Sharp, David H.** *see* **Glimm, James, 2001d:76067**
**Sprott, D. A.** ★ Statistical inference in science. (English summary) **2001e:62001**
**(Venn, John)** *see* **Kılıç, Berna Eden, 2001c:01020**
**Wang, Yao Hong** Fiducial intervals: what are they? (English summary)
**Wechsler, S.** *see* **Esteves, L. G. et al.**
**Wu, Jianrong** *see* **Fraser, D. A. S. et al., (2001m:62003)**
**Wu, Lang** *see* **Perlman, Michael D., 2001a:62014**

# 62Bxx Sufficiency and information

## 62B05 Sufficient statistics and fields

**Bischoff, Wolfgang** The structure of a linear model: sufficiency, ancillarity, invariance, equivariance, and the normal distribution. (English summary) **2001c:62005**
**Krutchkoff, Richard G.** Are sufficient statistics sufficient? (English summary) **2001k:62006**
**Mattner, Lutz** Sufficiency, exponential families, and algebraically independent numbers. (English summary) **2001a:62005**

Items with secondary classifications in 62B05

**Barndorff-Nielsen, Ole E.** *L*-nonformation, *L*-ancillarity, and *L*-sufficiency. (Russian summary) **2001b:62002**
**Bhapkar, Vasant P.** Estimating functions, partial sufficiency and $q$-sufficiency in the presence of nuisance parameters. (English summary) (*see* **2001m:62003**)
— On the optimality of estimators based on $p$-sufficient statistics. (English summary) **2001d:62021**
**Chergui, Jamal-Dine** Generalized Blackwell-Rao and Cramer-Rao's inequalities. (English and Italian summaries) **2001f:62013**
**García Nogales, Agustín** (*with* Oyola, José A.; Pérez, Paloma) On the equivalence of invariance and almost-invariance from a Bayesian point of view.

**Kay, Steven M.** Sufficiency, classification, and the class-specific feature theorem. (English summary) **2001j:94010**
**Nishihira, Yuji** Sufficiency and transitivity in sequential decision theory. (English and Turkish summaries) **2001j:62096**
**Oyola, José A.** *see* **García Nogales, Agustín et al.**
**Pérez, Paloma** *see* **García Nogales, Agustín et al.**
**Sapozhnikov, P. N.** Exponential shift families differing by the origin. (English summary) (*see* **2001j:62008**)

## 62B10 Information-theoretic topics [see also 94A17]

**Barron, Andrew R.** *see* **Yang, Yuhong, 2001g:62006**
**Garren, Steven T.** Asymptotic distribution of estimated affinity between multiparameter exponential families. (English summary)
**Inagaki, Nobuo** *see* **Kumagai, Etsuo, 2001f:62008** *and* **Inoue, Kiyoshi[2] et al., 2001h:62007**
**Inoue, Kiyoshi[2]** (*with* Inagaki, Nobuo; Kumagai, Etsuo) The exact information loss of the maximum likelihood estimator in the $k$-dimensional sphere model. (English summary) **2001h:62007**
**Konishi, Sadanori** Theory of statistical modeling and the construction of information criteria—an approach based on functionals. (Japanese) **2001h:62008**
**Kumagai, Etsuo** (*with* Inagaki, Nobuo) A Bayes approach to a grouping of small events in the multinomial distribution. (English summary) **2001f:62008**
— *see also* **Inoue, Kiyoshi[2] et al., 2001h:62007**
**Landsman, Zinoviy** On the minimum of the Fisher information about the scale parameter and the singular Sturme-Liouville problem. (English summary) [On the minimum of the Fisher information about the scale parameter and the singular Sturm-Liouville problem] **2001b:62003**
**Liu, Kunlin** Recursive parameter method for computing the predicting function of the multivariable ARMAX model. (English summary)
**Pardo, Leandro** (*with* Zografos, K.) Goodness of fit tests with misclassified data based on $\varphi$-divergences. (English summary)
**Reed, William J.** Reconstructing the history of forest fire frequency: identifying hazard rate change points using the Bayes information criterion. (English and French summaries)
**Shimodaira, Hidetoshi** Improving predictive inference under covariate shift by weighting the log-likelihood function. (English summary) **2001h:62009**
**Tanabe, Kunio** *see* **Yoshizawa, Shintaro, 2001b:62004**
**Yang, Yuhong** (*with* Barron, Andrew R.) Information-theoretic determination of minimax rates of convergence. (English summary) **2001g:62006**
**Yoshizawa, Shintaro** (*with* Tanabe, Kunio) Dual differential geometry associated with the Kullback-Leibler information on the Gaussian distributions and its 2-parameter deformations. (English summary) **2001b:62004**
**Zografos, K.** *see* **Pardo, Leandro**

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**Alonso, F. J.** *see* **Bueso, M. C. et al., 2001d:62098**
**Amari, Shun-ichi** (*with* Kawanabe, M.) Estimating functions in semiparametric statistical models. (English summary) (*see* **2001m:62003**)
**Angulo, J. M.** *see* **Bueso, M. C. et al., 2001d:62098**
**Bai, Peng** (*with* Pan, Jian-Xin; Fei, Yu) Bayesian influence assessments in a growth curve model with general covariance structure. (English and Chinese summaries)
**Balasubramanian, Vijay** *see* **Myung, In Jae et al.**
**Barron, Andrew R.** Information-theoretic characterization of Bayes performance and the choice of priors in parametric and nonparametric problems. (English summary) **2001c:62029**
**Bretthorst, G. Larry** "The near-irrelevance of sampling frequency distributions". (English summary) **2001k:94023**
**Bueso, M. C.** (*with* Angulo, J. M.; Qian, Guo Qi; Alonso, F. J.) Spatial sampling design based on stochastic complexity. (English summary) **2001d:62098**
**Bühlmann, Peter** Model selection for variable length Markov chains and tuning the context algorithm. (English summary) **2001j:62099**
**Bulacu, Fevronia** *see* **Preda, Vasile, (2001g:00020)**
**Burdet, G.** (*with* Nencka, Hanna) Equation of self-parallel curve deviation on statistical manifolds. (English summary) **2001e:53041**
**Castellan, Gwénaëlle** Sélection d'histogrammes à l'aide d'un critère de type Akaike. (English and French summaries) [Histogram selection with an Akaike-type criterion] **2001a:62041**
**Choi, ByoungSeon** *see* **Yi, Seongbaek, 2001h:62172**
**Cramer, Erhard** Probability measures with given marginals and conditionals: $I$-projections and conditional iterative proportional fitting. (English summary) **2001i:60017**
**Critchley, Frank** (*with* Marriott, Paul; Salmon, Mark) An elementary account of Amari's expected geometry. (*see* **2001d:62003**)
**Dias, Ronaldo** A note on maximum likelihood density estimation using a proxy of the Kullback-Leibler distance. (English summary) **2001j:62043**
**Doster, W.** Jeffreys' prior is the Hausdorff measure for the Hellinger and Kullback-Leibler distances. **2001e:62024**
**Esteban, M. D.** (*with* Mayoral, A. M.; Morales, Domingo; Morales Socuellamos, Javier) Some new statistics for testing point null hypotheses with prior information. (English summary) **2001b:62023**
**Fei, Yu** *see* **Bai, Peng et al.**
**Frieden, B. Roy** $F$-information, a unitless variant of Fisher information. (English summary) **2001c:94012**
**Fujii, Takao** *see* **Uohashi, Keiko et al., 2001h:53017**
**Gilula, Zvi** (*with* Haberman, Shelby J.) Density approximation by summary statistics: an information-theoretic approach. (English summary) **2001h:62019**
**Glurgescu, Patricia** Entropy considerations in the noncommutative setting. (English summary) **2001j:46098**
**Green, Herbert S.** ★ Information theory and quantum physics. (English summary) **2001e:94007**
**Grégoire, Gérard** (*with* Nembé, Jocelyn) Convergence rates for the minimum complexity estimator of counting process intensities. (English summary) **2001e:62035**
**Gzyl, Henryk** Maxentropic reconstruction of some probability distributions. (English summary) **2001m:60026**
**Haberman, Shelby J.** *see* **Gilula, Zvi, 2001h:62019**
**Hayashi, Masahito** On asymptotic estimators of irregular models via relative Rényi entropy. (Japanese. Japanese summary) (*see* **2001g:62003**)
**Jensen, Uwe[2]** Measuring earning differentials with frontier functions and Rao distances. (*see* **2001d:62003**)
**Karagrigoriou, Alex** (*with* Vonta, Filia) Asymptotically efficient order selection of a nonzero mean AR process for $h$-step prediction. (English summary) **2001a:62116**
**Kawanabe, M.** *see* **Amari, Shun-ichi, (2001m:62003)**
**Klein, André** A generalization of Whittle's formula for the information matrix of vector-mixed time series. (English summary)
**Marriott, Paul** *see* **Critchley, Frank et al., (2001d:62003)**
**Matsunawa, Tadashi** *see* **Yamada, Tomoya, 2001d:62016**
**Mayoral, A. M.** *see* **Esteban, M. D. et al., 2001b:62023**
**Miyano, Hisao** Identification model based on the maximum information entropy principle. (English summary) **2001k:91103**
**Morales, Domingo** (*with* Pardo, Leandro; Vajda, Igor) Rényi statistics in directed families of exponential experiments. (English summary) **2001c:62018**
— *see also* **Esteban, M. D. et al., 2001b:62023**
**Morales Socuellamos, Javier** *see* **Esteban, M. D. et al., 2001b:62023**
**Myung, In Jae** (*with* Balasubramanian, Vijay; Pitt, Mark A.) Counting probability distributions: differential geometry and model selection. (English summary)
**Nagaoka, Hiroshi** *see* **Ogawa, Tomohiro, 2001m:94025**
**Nembé, Jocelyn** *see* **Grégoire, Gérard, 2001e:62035**
**Nencka, Hanna** *see* **Burdet, G., 2001e:53041**
**Nigmatullin, R. R.** Detection of weak signals based on a new class of transformations of random series. (English summary) **2001k:94021**
**Ocaña, J.** *see* **Salicrú, M. et al., (2001d:62002)**
**Ogawa, Tomohiro** (*with* Nagaoka, Hiroshi) Strong converse and Stein's lemma in quantum hypothesis testing. (English summary) **2001m:94025**
**Ohara, Atsumi** *see* **Uohashi, Keiko et al., 2001h:53017**
**Pan, Jian-Xin** *see* **Bai, Peng et al.**
**Pardo, Leandro** *see* **Morales, Domingo et al., 2001c:62018**
**Pitt, Mark A.** *see* **Myung, In Jae et al.**
**Pourahmadi, Mohsen** (*with* Soofi, Ehsan S.) Prediction variance and information worth of observations in time series. (English summary)
**Preda, Vasile** (*with* Bulacu, Fevronia) The space of probability distributions—non-Euclidean Riemann variety. (*see* **2001g:00020**)
**Qian, Guo Qi** *see* **Bueso, M. C. et al., 2001d:62098**
**Rao, J. Sunil** *see* **Shao, Jun[1]**
**Reschenhofer, Erhard** Some remarks on the entropy maximization principle. (English summary)
**Salicrú, M.** (*with* Vives, S.; Ocaña, J.) Power of some asymptotic tests for maximum entropy. (English summary) (*see* **2001d:62002**)
**Salmon, Mark** *see* **Critchley, Frank et al., (2001d:62003)**
**Satoh, Kenichi** Modification of AIC-type criterion in multivariate normal linear regression with a future experiment. (English summary) **2001a:62087**
**van Schuppen, Jan H.** *see* **Stoorvogel, Anton A., 2001b:93079**
**Shao, Jun[1]** (*with* Rao, J. Sunil) The GIC for model selection: a hypothesis testing approach. (English summary)
**Song, Kai-Sheng** Limit theorems for nonparametric sample entropy estimators. (English summary) **2001e:62032**
**Soofi, Ehsan S.** *see* **Pourahmadi, Mohsen**
**Stafeev, S. V.** On the Schwarz criterion. (Russian. English and Russian summaries) (*see* **2001e:00010**)
**Stoorvogel, Anton A.** (*with* van Schuppen, Jan H.) Approximation problems with the divergence criterion for Gaussian variables and Gaussian processes. (English summary) **2001b:93079**
**Tang, Nian Sheng** (*with* Zhu, Zhong Yi; Wei, Bo Cheng) Geometry of nonlinear reproductive dispersion models and related asymptotic inference. (Chinese. Chinese summary)
**Topsøe, Flemming** Some inequalities for information divergence and related measures of discrimination. (English summary) **2001i:94032**
**Uohashi, Keiko** (*with* Ohara, Atsumi; Fujii, Takao) 1-conformally flat statistical submanifolds. **2001h:53017**
**Vajda, Igor** *see* **Morales, Domingo et al., 2001c:62018**
**Vidoni, Paolo** Model selection using the estimative and the approximate $p^*$ predictive densities. (English summary) **2001c:62038**
**Villani, Cédric** A short proof of the "concavity of entropy power". (English summary) **2001b:94011**
**Villani, Mattias** Fractional Bayesian lag length inference in multivariate autoregressive processes. (English summary)
**Vinod, H. D.** Foundations of multivariate inference using modern computers. (English summary) **2001k:62072**
**Vives, S.** *see* **Salicrú, M. et al., (2001d:62002)**
**Vonta, Filia** *see* **Karagrigoriou, Alex, 2001a:62116**
**Wei, Bo Cheng** *see* **Tang, Nian Sheng et al.**
**Xu, Lei[1]** BYY learning system and theory for parameter estimation, data smoothing based regularization and model selection. (English summary) **2001k:68119**
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**Yang, Yuhong** Mixing strategies for density estimation. (English summary) **2001b:62047**
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## 62B15 Theory of statistical experiments

**Koyama, Nobuyuki** *see* **Kusama, T., 2001c:62006**
**Kusama, T.** (*with* Koyama, Nobuyuki) Complete classes in comparison of sequential binomial experiments. (English summary) **2001c:62006**

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**Gossner, Olivier** Comparison of information structures. (English summary) **2001i:91015**
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**Grünwald, Peter** Viewing all models as 'probabilistic'. (English summary) **2001m:68147**
**Hao, Jian Hua** *see* **Shima, Hirohiko, 2001d:62061**
**Maher, Patrick** Probabilities for two properties. (English summary) **2001b:03025**
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# 62Cxx Decision theory [see also 90B50, 91B06; for game theory, see 91A35]

## 62C05 General considerations

**Bischoff, Wolfgang** Best $\varphi$-approximants for bounded weak loss functions. (English summary) **2001j:62010**
**Starshinov, A. I.** Some statistical properties of identification procedures based on sampling distributions. (English summary)

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**Cohen, Arthur** (*with* Sackrowitz, Harold B.) Testing whether treatment is "better" than control with ordered categorical data: definitions and complete class theorems. (English summary) **2001h:62010**
**Sackrowitz, Harold B.** *see* **Cohen, Arthur, 2001h:62010**

## 62C10 Bayesian problems; characterization of Bayes procedures

**Abbasi, N.** *see* **Sanjari Farsipour, N.**
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**Bennett, Bruce M.** (*with* Cohen, Rachel B.) $L^\infty$ metric criteria for convergence in Bayesian recursive inference systems. (English summary) **2001g:60006**
**Bischoff, Wolfgang** Best $\varphi$-approximants for bounded weak loss functions. (English summary) **2001j:62010**
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**Shiryaev, Albert N.** *see* **Peskir, Goran, 2001m:62090**
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## 62C12 Empirical decision procedures; empirical Bayes procedures

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**Attia, A. F.** Empirical Bayes approach to reliability.
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## 62C15 Admissibility

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**Fourdrinier, Dominique** (*with* Philippe, A.; Robert, Christian P.) Estimation of a non-centrality parameter under Stein-type-like losses. (English summary) **2001d:62007**
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**Klebanov, Lev B.** *see* **Jurečková, Jana**
**Lillo, Rosa E.** (*with* Martín Díaz, Miguel) Characterization of Bayes estimators of the uniform scale parameter. (English summary) **2001j:62011**
**Liu, Ji Chun** *see* **Lu, Chang Yu et al.**
**Lu, Chang Yu** (*with* Shi, Ning Zhong; Liu, Ji Chun) Admissibility of inhomogeneous linear estimators with respect to inequality constraints under matrix loss function. (Chinese. English and Chinese summaries)
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**Wang, Hsiuying** Admissibility of confidence estimators in the regression model. (English summary) **2001m:62008**
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**Wu, Qi Guang** *see* **Xu, Xing Zhong, 2001j:62012** *and* **Noda, Kazuo et al., 2001m:62007**
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**Sun, Xiaoqian** Improvement on the best affine equivariant estimation of the convariance matrix under the entropy loss. (English and Chinese summaries)
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## 62C20 Minimax procedures

**Cesa-Bianchi, Nicolò** (*with* Lugosi, Gábor) On prediction of individual sequences. (English summary) **2001g:62008**
**Gourdin, Eric** *see* **MacGibbon, Brenda et al., 2001g:62009**
**Helmes, Kurt** (*with* Srinivasan, Cidambi) Computing linear mini-max estimators. (English summary) (*see* **2001f:91003**)
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**Lugosi, Gábor** *see* **Cesa-Bianchi, Nicolò, 2001g:62008**
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**Vidakovic, Brani** Γ-minimax: a paradigm for conservative robust Bayesians. (English summary) **2001h:62016**
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**Colbourn, Charles J.** *see* **Riccio, Laura**
**Donoho, David L.** Wedgelets: nearly minimax estimation of edges. (English summary) **2001g:62026**
**Fourdrinier, Dominique** (*with* Ouassou, Idir) Estimation of the mean of a spherically symmetric distribution with constraints on the norm. (English and French summaries) **2001j:62071**
— (*with* Philippe, A.; Robert, Christian P.) Estimation of a non-centrality parameter under Stein-type-like losses. (English summary) **2001d:62007**
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**García, Gloria** (*with* Oller, Josep M.) Minimum Riemannian risk equivariant estimator for the univariate normal model. (English summary) **2001m:62024**
**Ghosh, Malay** *see* **Shieh, Gwowen, 2001h:62014**
**Giani, G.** (*with* Strassburger, K.) Multiple comparison procedures for optimally discriminating between good, equivalent, and bad treatments with respect to a control. (English summary) **2001e:62019**
**Golubev, G. K.** (*with* Härdle, Wolfgang) Second order minimax estimation in partial linear models. (English summary) **2001i:62022**
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**Srivastava, Muni Shanker** (*with* Kubokawa, T.) Improved nonnegative estimation of multivariate components of variance. (English summary) **2001f:62035**
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## 62C25 Compound decision problems

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**Gajek, Lesław** (*with* Zagrodny, Dariusz) Insurer's optimal reinsurance strategies. (English summary) **2001h:91053**
**Martínez, Ruth** (*with* Massó, Jordi; Neme, Alejandro; Oviedo, Jorge) Single agents and the set of many-to-one stable matchings. (English summary) **2001e:91045**
**Massó, Jordi** *see* **Martínez, Ruth et al., 2001e:91045**
**Michálek, Jaroslav** (*with* Nakonechnyĭ, A. G.) Minimax estimates of a linear parameter function in a regression model under restrictions on the parameters and variance-covariance matrix. (English summary) **2001e:62059**
**Nakonechnyĭ, A. G.** *see* **Michálek, Jaroslav, 2001e:62059**
**Nehring, Klaus** A theory of rational choice under ignorance. (English summary) **2001e:91046**
**Neme, Alejandro** *see* **Martínez, Ruth et al., 2001e:91045**
**Oviedo, Jorge** *see* **Martínez, Ruth et al., 2001e:91045**
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**Zagrodny, Dariusz** *see* **Gajek, Lesław, 2001h:91053**

## 62C99 None of the above, but in this section

**Iliopoulos, G.** (*with* Kourouklis, Stavros) Interval estimation for the ratio of scale parameters and for ordered scale parameters. (English summary) **2001d:62009**
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**(Fox, Bertrand)** *see* **Raiffa, Howard, 2001h:62005**
**Funo, Eiichiro** A statistical conjecture for discrete sampling accompanied by missing and pooling. (Japanese) (*see* **2001g:62003**)
**Kramosil, Ivan** Towards possibilistic decision functions with minimum-based Sugeno integrals. (English summary) (*see* **2001d:68023**)
**Lbov, G. S.** (*with* Startseva, N. G.) ★ Логические решающие функции и вопросы статистической устойчивости решений. (Russian. Russian summary) [Logical decision functions and problems of the statistical stability of decisions] **2001e:68155**
**Meeden, Glen** A decision theoretic approach to imputation in finite population sampling. (English summary)
**Neudecker, Heinz** A note on the scalar Haffian. (English summary)
**Raiffa, Howard** (*with* Schlaifer, Robert) ★ Applied statistical decision theory. **2001h:62005**
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**Startseva, N. G.** *see* **Lbov, G. S., 2001e:68155**

## 62D05 Sampling theory, sample surveys

**Adhikary, Arun Kumar** *see* **Chaudhuri, Arijit et al., 2001m:62013**
**Aggarwal, Om P.** Some aspects of techniques for unbiased estimation in sampling from a finite population. (English and Hindi summaries)
**Agrawal, Mool Chandra** (*with* Roy, Dulal Chandra) Efficient estimators for small domains. (English and Hindi summaries)
— (*with* Roy, Dulal Chandra) Efficient estimators of population variance with regression-type and ratio-type predictor-inputs. (English and Italian summaries)
**Ahmad, Manzoor** (*with* Alalouf, Serge; Chaubey, Yogendra P.) Estimation of the population total when the population size is unknown. (English summary)
**Ahmed, Md. Saleh** *see* **Hossain, M. I.**
**Alalouf, Serge** *see* **Ahmad, Manzoor et al.**
**An, Anthony B.** *see* **Fuller, Wayne A.**
**Arnab, Raghunath** *see* **Okafor, Fabian C.**
**Artés Rodríguez, Eva M.** Successive sampling using a multivariate product estimate. (Spanish. English and Spanish summaries)
**Babyak, Colin** *see* **Binder, David A. et al., 2001m:62011**
**Bailer, A. John** *see* **See, K. et al.**
**Barry, Simon C.** (*with* Welsh, A. H.) Distance sampling methodology. (English summary) **2001m:62010**
**Binder, David A.** (*with* Babyak, Colin; Brodeur, Marie; Hidiroglou, Michael A.; Jocelyn, Wisner) Variance estimation for two-phase stratified sampling. (English and French summaries) **2001m:62011**
**Bloznelis, Mindaugas** (*with* Götze, Friedrich) An Edgeworth expansion for finite-population $U$-statistics. (English summary) **2001k:62010**
— One- and two-term Edgeworth expansions for a finite population sample mean. Exact results. I. (English and Lithuanian summaries) **2001k:62011**
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**Breidt, F. Jay** (*with* Opsomer, Jean D.) Local polynomial regresssion estimators in survey sampling. (English summary) **2001m:62012**
**Brodeur, Marie** *see* **Binder, David A. et al., 2001m:62011**
**Chakrabarty, Tapan Kr.** (*with* Singh, Braja Mohan; Tripathi, T. P.) Estimation of finite population transition probability matrix based on two stage sampling design. (English summary)
**Chan, Wenyaw** (*with* Peng, Nan Fu) A minimum-cost strategy for cluster recruitment. (English summary)
**Chang, Horng-Jinh** (*with* Huang, Kuo-Chung) On estimation of ratio of population means in survey sampling when some observations are missing. (English summary)
— (*with* Huang, Kuo-Chung) Remainder linear systematic sampling. (English summary)
— (*with* Huang, Kuo-Chung) Ratio estimation in survey sampling when some observations are missing. (English summary)
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**Chaudhuri, Arijit** Network and adaptive sampling with unequal probabilities. (English summary)
— (*with* Adhikary, Arun Kumar; Dihidar, Shankar) Mean square error estimation in multi-stage sampling. (English summary) **2001m:62013**

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**Chen, Jia Hua** (*with* Rao, J. N. K.; Sitter, Randy R.) Efficient random imputation for missing data in complex surveys. (English summary) **2001j:62013**

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**Montanari, Giorgio E.** Conditioning on auxiliary variable means in finite population inference. (English summary) **2001i:62007**

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**Mukhopadhyay, Parimal** Bayesian estimation of a finite population total using asymmetric loss functions. (English summary)

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**Niemiro, Wojciech** (*with* Wesołowski, Jacek) Fixed precision optimal allocation in two-stage sampling. (English summary)

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**Singh, Braja Mohan** *see* **Chakrabarty, Tapan Kr. et al.**

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**Singh, Rajesh[1]** (*with* Singh, Housila Prasad) A class of unbiased estimators in cluster sampling. (English and Hindi summaries)

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**Singh, Sarjinder** Estimation of variance of regression estimator in two phase sampling. (English summary)

— (*with* Horn, Stephen) Compromised imputation in survey sampling. (English summary)

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**Srivastava, S. Rani** *see* **Khare, B. B.**
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**Sud, U. C.** (*with* Srivastava, Anil K.) Estimation of population mean in repeat surveys in the presence of measurement errors. (English and Hindi summaries)
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**Verma, S. S.** *see* **Sharma, Y. K. et al.**
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**Ye, A Zhong** Ratio estimation method and optimum allocation of sample sizes in multi-stage sampling. (Chinese. English and Chinese summaries)
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**Al Odat, M. Taleb** (*with* Al-Saleh, Mohammad F.) A variation of ranked set sampling. (English summary)
**Al-Saleh, Mohammad F.** (*with* Al-Kadiri, M. Ali) Double-ranked set sampling. (English summary) **2001c:62023**
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**Çalik, Sinan** *see* **Güngör, Mehmet**
**Causeur, David** Exact distribution of the regression estimator in double sampling. (English summary)
**Chakraborty, Ranajit** (*with* Rao, Calyampudi Radhakrishna) Selection biases of samples and their resolutions. (*see* **2001c:62002**)
**Chen, Zehua** (*with* Bai, Zhi-Dong) The optimal ranked-set sampling scheme for parametric families. (English summary) **2001e:62018**
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**Gneiting, Tilmann** Addendum to: "Isotropic correlation functions on $d$-dimensional balls" [Adv. in Appl. Probab. **31** (1999), no. 3, 625–631; 1 742 685]. (English summary)
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**Kaur, Amarjot** (*with* Patil, Ganapati P.; Taillie, C.) Ranked set sample sign test under unequal allocation. (English summary) (*see* **2001j:62007**)
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**Rao, Calyampudi Radhakrishna** *see* **Babu, G. Jogesh et al.** *and* **Chakraborty, Ranajit, (2001c:62002)**
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## 62Exx Distribution theory [see also 60Exx]

### 62E10 Characterization and structure theory

**Abdelmoneim, T. M.** *see* **Shalaby, O. A.**
**Ahmad, Abd El-Baset A.** Characterizations of finite mixture distributions by regressions of nonadjacent order statistics. (English and Italian summaries)
**Ahmadi, Jafar** (*with* Arghami, N. R.) Characterization of the beta type I distribution by properties of record values. (English summary)
**Ahsanullah, Mohammad** (*with* Bairamov, Ismihan G.) A characterization of uniform distribution. (English and Turkish summaries)
— *see also* **Wesolowski, Jacek, 2001m:62017** *and* **Bairamov, Ismihan G.**
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— New characterization of discrete distributions through weak records. (Russian summary) **2001j:62017**
**Apaydın, Ayşen** *see* **Bairamov, Ismihan G.**
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**Hu, Duan Ping** A closure property for linear combinations of random variables. (Chinese. English and Chinese summaries)
**Huang, Wen-Jang** *see* **Su, Jyh-Cherng**
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**Minkova, Leda** *see* **Kolev, Nikolaĭ V., (2001g:00022)**
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**Tu, Fengsheng** *see* **Yue, Dequan**
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— Characterizations of generalized mixtures of geometric and exponential distributions based on upper record values. (English summary)
— (*with* Lee, Wen-Chuan) On the characterization of generalized extreme value, power function, generalized Pareto and classical Pareto distributions by conditional expectation of record values. (English summary)
**Yue, Dequan** (*with* Tu, Fengsheng) Characterizations of the geometric distribution related to a discrete renewal process. (English and Chinese summaries)
**Zou, Hua** A characterization of a class of Poisson-type distributions. (Chinese. English and Chinese summaries)
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**van Aubel, Andrea** (*with* Gawronski, Wolfgang) On the unimodality and the bell-shape of noncentral distributions. (English summary) **2001i:60016**
**Bartoszewicz, Jarosław** Stochastic orders based on the Laplace transform and infinitely divisible distributions. (English summary) **2001g:60035**
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**Bekker, A. V.** (*with* Roux, J. J. J.; Mostert, P. J.) A generalization of the compound Rayleigh distribution: using a Bayesian method on cancer survival times. (English summary)
**Bischoff, Wolfgang** The structure of a linear model: sufficiency, ancillarity, invariance, equivariance, and the normal distribution. (English summary) **2001c:62005**
**Chang, Wen-Ching** *see* **Huang, Wen-Jang, 2001a:60056**
**Chen, Sean X.** General properties and estimation of conditional Bernoulli models. (English summary) **2001i:62064**
**Crowder, Martin** Characterizations of competing risks in terms of independent-risks proxy models. (English summary) **2001c:62114**
**Ebrahimi, Nader** The maximum entropy method for lifetime distributions. (English summary)
**Elnaggar, Mohamed** (*with* Mukherjea, Arunava) Identification of the parameters of a trivariate normal vector by the distribution of the minimum. (English summary) **2001h:62096**
**El-Neweihi, Emad** (*with* Sinha, Bikas K.) Reliability estimation based on ranked set sampling. (English summary) **2001h:62181**
**van Es, A. J.** *see* **Klaassen, Chris A. J. et al., 2001e:60035**
**Fang, Hong-Bin** *see* **Fang, Kai-Tai et al., 2001e:62015**
**Fang, Kai-Tai** (*with* Fang, Hong-Bin; von Rosen, Dietrich) A family of bivariate distributions with non-elliptical contours. (English summary) **2001e:62015**
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**Kagan, Abram** (*with* Mallows, Colin L.; Shepp, Lawrence A.; Vanderbei, Robert J.; Vardi, Yehuda) Symmetrization of binary random variables. (English summary) **2001c:60020**
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**Kozubowski, Tomasz J.** (*with* Rachev, Svetlozar T.) Univariate geometric stable laws. (English summary) **2001f:60017**
**Lajkó, Károly** Functional equations in the theory of conditionally specified distributions. (English summary) **2001m:39065**
**Letac, Gérard** (*with* Massam, Hélène) Representations of the Wishart distributions. (English summary) **2001i:62067**
— (*with* Wesołowski, Jacek) An independence property for the product of GIG and gamma laws. (English summary) **2001i:60019**
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**Mikusiński, Piotr** (*with* Taylor, M. D.) A remark on associative copulas. (English summary) **2001c:60021**
**Mokveld, Philip J.** *see* **Klaassen, Chris A. J. et al., 2001e:60035**
**Mostert, P. J.** *see* **Bekker, A. V. et al.**
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**Nanda, Asok K.** Generalized ageing classes in terms of Laplace transforms. (English summary) **2001i:60146**
**Prakasa Rao, B. L. S.** Some covariance identities, inequalities and their applications: a review. (English summary) **2001j:60036**
**Rachev, Svetlozar T.** *see* **Kozubowski, Tomasz J., 2001f:60017**
**Rao, Calyampudi Radhakrishna** (*with* Shanbhag, D. N.) Further versions of the convolution equation. (English and Hindi summaries)
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**von Rosen, Dietrich** *see* **Fang, Kai-Tai et al., 2001e:62015**
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**Sato, Ken-iti** Semi-stable processes and their extensions. (English summary) **2001m:60110**
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**Ushakov, Vladimir Georgievich** *see* **Ushakova, A. P., (2001a:00042)**
**Ushakov, Vladimir N.** *see* **Ushakova, A. P., 2001c:60023**
**Ushakova, A. P.** (*with* Ushakov, Vladimir Georgievich) On the stability of characterization by the distribution of any order statistic. (English summary) (*see* **2001a:00042**)
— (*with* Ushakov, Vladimir N.) An estimate of stability of the reconstruction of the normal multiplicative type. (English summary) **2001c:60023**
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**Wimmer, Gejza** (*with* Altmann, Gabriel) On the generalization of the STER distribution applied to generalized hypergeometric parents. (English summary)
**Winkler, Gerhard** Moment sets of bell-shaped distributions: extreme points, extremal decomposition and Chebysheff inequalities. (English summary) **2001d:60013**
**Yanushkevichius, Romanas** On the stability of some analytic results arising in the characterization of distributions. (English summary) **2001c:60025**
— Stability of the characterization of normal distribution in the Laha-Lukacs theorem. (English summary) **2001k:60016**
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## 62E15 Exact distribution theory

**Abu-Youssef, S. E.** Identity for product moments of upper record values. (English summary)
**Adamidis, Konstantinos** *see* **Kottas, Athanasios et al., 2001c:62014**
**Almudevar, Anthony** (*with* Field, Chris; Robinson, John) The density of multivariate $M$-estimates. (English summary) **2001e:62013**

**Al-Saqabi, Bader N.** *see* **Kalla, Shyam L. et al.**
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**Arevalillo, Jorge M.** A second order approximation for the inverse of the distribution function of the sample mean. (English summary)
**Bairamov, Ismihan G.** (*with* Kotz, Samuel; Bekçi, Muhammet) New generalized Farlie-Gumbel-Morgenstern distributions and concomitants of order statistics. (English summary)
**Bekçi, Muhammet** *see* **Bairamov, Ismihan G. et al.**
**Belinskiĭ, B. P.** (*with* Kozubowski, Tomasz J.) Exponential mixture representation of geometric stable densities. **2001e:62014**
**Bulacu, Fevronia** *see* **Preda, Vasile, (2001g:00021)**
**Cheong, Young-Ho** *see* **Provost, Serge B., 2001h:62021**
**Coffey, Christopher S.** (*with* Muller, Keith E.) Some distributions and their implications for an internal pilot study with a univariate linear model. (English summary)
**Das, N. C.** General computational relation between $t$ and $F$-ratios. (English summary)
**Evans, Diane L.** *see* **Leemis, Lawrence M. et al.**
**Evans, Merran** (*with* Hastings, Nicholas; Peacock, Brian) ★ Statistical distributions. (English summary)
**Famoye, Felix** Zeroed bivariate generalized logarithmic series distribution. (English summary)
**Fang, Hong-Bin** *see* **Fang, Kai-Tai et al., 2001e:62015**
**Fang, Kai-Tai** (*with* Fang, Hong-Bin; von Rosen, Dietrich) A family of bivariate distributions with non-elliptical contours. (English summary) **2001e:62015**
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**Gerardi, Anna** (*with* Spizzichino, Fabio; Torti, Barbara) Exchangeable mixture models for lifetimes: the role of "occupation numbers". (English summary) **2001i:62011**
**Hastings, Nicholas** *see* **Evans, Merran et al.**
**Jones, Geoff** (*with* Lai, C. D.; Rayner, J. C. W.) A bivariate gamma mixture distribution. (English summary)
**Kalbfleisch, John D.** *see* **Yuan, Lin, 2001h:62022**
**Kalla, Shyam L.** (*with* Al-Saqabi, Bader N.; Khajah, H. G.) A unified form of gamma-type distributions. (English summary)
— (*with* Al-Saqabi, Bader N.) Further results on a unified form of gamma-type distributions. (English summary)
**Khajah, H. G.** *see* **Kalla, Shyam L. et al.**
**Knutova, E. M.** *see* **Shat-skikh, S. Ya.**
**Kottas, Athanasios** (*with* Adamidis, Konstantinos; Loukas, Sotiris) Bivariate distributions with Pearson type VII conditionals. (English summary) **2001c:62014**
**Kotz, Samuel** *see* **Bairamov, Ismihan G. et al.**
**Koudou, A. E.** (*with* Pommeret, Denys) A construction of Lancaster probabilities with margins in the multidimensional Meixner class. (English summary) **2001a:62010**
**Kozubowski, Tomasz J.** *see* **Belinskiĭ, B. P., 2001e:62014**
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**Leemis, Lawrence M.** (*with* Schmeiser, Bruce W.; Evans, Diane L.) Survival distributions satisfying Benford's law. (English summary)
**Loukas, Sotiris** *see* **Kottas, Athanasios et al., 2001c:62014**
**Mishra, Amarendra** (*with* Singh, S. K.) Moments of a quasi-binomial distribution. (English summary)
— (*with* Singh, S. K.) On a quasi geometric series distribution. (English summary)
**Moothathu, T. S. K.** *see* **Kumar, C. Satheesh**
**Muller, Keith E.** *see* **Coffey, Christopher S.**
**Murat, Małgorzata** (*with* Szynal, Dominik) On computational formulas for densities and moments of compound distributions. (English summary) (*see* **2001a:00042**)
**Ong, Seng-Huat** On a generalization of the log-series distribution. (English summary)
**Pakes, Anthony G.** *see* **Stefanov, Valeri T., 2001f:62010a** *and* **2001f:62010b**
**Panaretos, J.** *see* **Psarakis, S.**
**Pavlov, Khristo Vasilev** Multidimensional $\beta$-distribution. (English summary) (*see* **2001c:00014**)
**Pawlas, Piotr** (*with* Szynal, Dominik) Recurrence relations for single and product moments of $k$-th lower record values from the inverse distributions of Pareto's type and characterizations. (English summary) **2001m:62018**
**Peacock, Brian** *see* **Evans, Merran et al.**
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**Polisicchio, M.** (*with* Zini, A.) Covariance between sample mean and mean difference: formal aspects and relations with asymmetry. (Italian. English and Italian summaries)
**Pommeret, Denys** *see* **Koudou, A. E., 2001a:62010**
**Preda, Vasile** (*with* Bulacu, Fevronia) The Farlie-Gumbel-Morgenstern family of probability distributions: solution of a minimization problem. (*see* **2001g:00021**)
**Provost, Serge B.** (*with* Cheong, Young-Ho) On the distribution of linear combinations of the components of a Dirichlet random vector. (English and French summaries) **2001h:62021**
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**Rayner, J. C. W.** *see* **Jones, Geoff et al.**
**Regazzini, Eugenio** An example of the interplay between statistics and special functions. **2001d:62012**
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**Shetty, I. D.** A note on the mean deviation about the mean of standard beta distribution. (English summary)
**Singh, S. K.** *see* **Mishra, Amarendra**
**Song, Peter Xue-Kun** Multivariate dispersion models generated from Gaussian copula. (English summary) **2001d:62013**
**Spizzichino, Fabio** *see* **Gerardi, Anna et al., 2001i:62011**
**Stefanov, Valeri T.** (*with* Pakes, Anthony G.) Explicit distributional results in pattern formation. II. (English summary) **2001f:62010a**
— (*with* Pakes, Anthony G.) Corrigenda: "Explicit distributional results in pattern formation. II". **2001f:62010b**
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**Szynal, Dominik** *see* **Pawlas, Piotr, 2001m:62018** *and* **Murat, Małgorzata, (2001a:00042)**
**Torigoe, Norio** Weighted sum distribution for a chi-squared stochastic variable. (Japanese) (*see* **2001g:62003**)
**Torti, Barbara** *see* **Gerardi, Anna et al., 2001i:62011**
**Tuenter, H. J. H.** On the generalized Poisson distribution. (English summary)
**Vernic, Raluca** Plusieurs lois de Poisson généralisées-mélange et leur application dans les assurances. [Several generalized-mixed Poisson distributions and their application to insurance]
**Wimmer, Gejza** (*with* Altmann, Gabriel) A new type of partial-sums distributions. (English summary)
**Witkovský, Viktor** Computing the distribution of a linear combination of inverted gamma variables. (English summary)
**Wu, Jiang-Ming Johnny** Extreme statistics from the cosine distribution. (English summary) (*see* **2001a:62004**)
**Yuan, Lin** (*with* Kalbfleisch, John D.) On the Bessel distribution and related problems. (English summary) **2001h:62022**
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**Abu-Youssef, S. E.** (*with* Al-Ruzaiza, A. S.) On record values from linear exponential distribution. (English summary)
**Adham, Samia A.** *see* **Al-Hussaini, Essam K. et al.**
**Ahsanullah, Mohammad** Generalized order statistics from exponential distribution. (English summary) **2001a:62066**
— (*with* Raghunandanan, K.) Recurrence relations for moments of generalized order statistics from exponential distribution. (English summary)
— *see also* **Nevzorov, V. B., 2001m:62068**; **Bairamov, Ismihan G.** *and* **Raqab, Mohammad Z.**
**Aki, Sigeo** *see* **Han, Sung-il**
**Al-Dayian, Gannat R.** *see* **Al-Hussaini, Essam K. et al.**
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**Al-Hussaini, Essam K.** (*with* Al-Dayian, Gannat R.; Adham, Samia A.) On finite mixture of two-component Gompertz lifetime model. (English summary)
**Al-Ruzaiza, A. S.** *see* **Abu-Youssef, S. E.**
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**Bairamov, Ismihan G.** (*with* Ahsanullah, Mohammad) Distributional relations between order statistics and the sample itself and characterization of exponential distribution. (English summary)
**Balakrishnan, Narayanaswamy** *see* **Childs, Aaron et al., (2001d:62002)** *and* **Sultan, Khalaf S. et al., (2001d:62002)**
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**Barndorff-Nielsen, Ole E.** (*with* Rydberg, Tina Hviid) Exact distributional results for random resistance trees. (English summary) **2001j:60015**
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**Piccioni, Mauro** Independence structure of natural conjugate densities to exponential families and the Gibbs' sampler. (English summary) **2001j:62029**
**Prokhorov, Yurii Vasil'evich** (*with* Christoph, Gerd; Ul'yanov, Vladimir Vasil'evich) Characterizing properties of quadratic forms. (Russian) **2001k:62020**
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**Raghunandanan, K.** *see* **Ahsanullah, Mohammad**
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**Rydberg, Tina Hviid** *see* **Barndorff-Nielsen, Ole E., 2001j:60015**
**Saran, Jagdish** (*with* Pushkarna, Narinder) Relationships for moments of record values from linear-exponential distribution. (English summary)
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**Stefanov, Valeri T.** On some waiting time problems. (English summary) **2001i:60023**
**Stoimenova, Eugenia** Rank tests based on exceeding observations. (English summary) **2001d:62051**
**Sultan, Khalaf S.** (*with* Childs, Aaron; Balakrishnan, Narayanaswamy) Higher order moments of order statistics from the power function distribution and Edgeworth approximate inference. (English summary) (*see* **2001d:62002**)
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**Sun, Bing Kun** (*with* Shi, Dao Ji) Tail dependence in bivariate Cauchy distribution. (Chinese. English and Chinese summaries)
**Szynal, Dominik** *see* **Murat, Małgorzata, 2001m:62039** *and* **Pawlas, Piotr**
**Tukey, John W.** *see* **Morgenthaler, Stephan, 2001m:62070**
**Ufimtsev, M. V.** *see* **Galkin, V. Ya.**
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**Witkovský, Viktor** On the exact computation of the density and of the quantiles of linear combinations of $t$ and $F$ random variables. (English summary)
**Wu, Jong-Wuu** (*with* Lin, Shang-Hsien) Estimation of the parameters of the extreme-value distribution under the first failure-censored sampling plan. (English summary)
**Yamada, Tomoya** (*with* Matsunawa, Tadashi) Quantitative approximation to the ordered Dirichlet distribution under varying basic probability spaces. (English summary) **2001d:62016**
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## 62E17 Approximations to distributions (nonasymptotic)

**Basak, Prasanta** *see* **Lindsay, Bruce G. et al., 2001b:62011**
**Brown, Timothy C.** (*with* Phillips, Michael John) Negative binomial approximation with Stein's method. (English summary) **2001h:62023**
**Güngör, Mehmet** Approximate calculation of some moments of order statistics. (English summary)
— David-Johnson approximation for calculation of some moments of order statistics. (English summary)
**Lindsay, Bruce G.** (*with* Pilla, Ramani S.; Basak, Prasanta) Moment-based approximations of distributions using mixtures: theory and applications. (English summary) **2001b:62011**
**López-Blázquez, Fernando** (*with* Salamanca-Miño, Begoña) Binomial approximation to hypergeometric probabilities. (English summary) **2001b:62012**
**Petre, Florentina** *see* **Popescu, Ileana**
**Phillips, Michael John** *see* **Brown, Timothy C., 2001h:62023**
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**Popescu, Ileana** (*with* Petre, Florentina) Simulation of Wishart distribution. (English summary)
**Salamanca-Miño, Begoña** *see* **López-Blázquez, Fernando, 2001b:62012**
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**Butler, Ronald W.** (*with* Huzurbazar, Aparna V.) Bayesian prediction of waiting times in stochastic models. (English and French summaries) **2001h:62151**
— Reliabilities for feedback systems and their saddlepoint approximation. (English summary) **2001m:60205**
**Erhardsson, Torkel** Compound Poisson approximation for counts of rare patterns in Markov chains and extreme sojourns in birth-death chains. (English summary) **2001h:60014**
**Fatalov, V. R.** The Laplace method for computing exact asymptotics of distributions of integral statistics. (English summary) **2001i:62013**
**Huzurbazar, Aparna V.** *see* **Butler, Ronald W., 2001h:62151**
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**Kolassa, John E.** Saddlepoint approximation at the edges of a conditional sample space. (English summary) **2001m:62082**
**Kollo, Tõnu** (*with* von Rosen, Dietrich) Distribution and density approximation of the covariance matrix in the growth curve model. (English summary) **2001k:62070**
**Korenevskiĭ, M. L.** *see* **Ivanov, Vladimir M., 2001m:65189**
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**Månsson, Marianne** *see* **Barbour, Andrew D., 2001c:60035**
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**Phillips, Michael John** (*with* Weinberg, Graham V.) Non-uniform bounds for geometric approximation. (English summary) **2001i:60041**
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**Rozovskiĭ, L. V.** A lower bound for the probabilities of large deviations of the sum of independent random variables with finite variances. (Russian. English and Russian summaries) **2001g:60058**
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**Stock, James H.** (*with* Wright, Jonathan H.) GMM with weak identification. (English summary) **2001h:62192**
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**Tarpey, Thaddeus** Parallel principal axes. (English summary) **2001m:62075**
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**Wright, Jonathan H.** *see* **Stock, James H., 2001h:62192**

## 62E20 Asymptotic distribution theory

**Akahira, Masafumi** *see* **Takahashi, Kunihiko, (2001g:62003)**
**Almudevar, Anthony** (*with* Bhattacharya, Rabi N.; Sastri, C. C. A.) Estimating the probability mass of unobserved support in random sampling. (English summary) **2001i:62012**
**Azlarov, T. A.** (*with* Khabibullaeva, U. K.) Asymptotic behavior of the distribution of a statistical estimate for the entropy of a Bernoulli random variable. (Russian. English and Uzbek summaries)
**Barranco-Chamorro, I.** (*with* Moreno-Rebollo, J. L.; López-Blázquez, Fernando) Limiting distributions of MLE and UMVUE in the biparametric uniform distribution. (English summary)
**Bhattacharya, Rabi N.** *see* **Almudevar, Anthony et al., 2001i:62012**
**Bloznelis, Mindaugas** (*with* Götze, Friedrich) One-term Edgeworth expansion for finite population $U$-statistics of degree two. (English summary) **2001c:62015**
**Chen, Ming Hua²** *see* **Ren, Zhe**
**Cheng, Shi Hong** *see* **Pan, Jia Zhu**
**Chow, Victor K.** *see* **Zheng, Buhong et al.**
**van Eeden, Constance** *see* **Froda, Sorana M., 2001i:62014**
**Fatalov, V. R.** The Laplace method for computing exact asymptotics of distributions of integral statistics. (English summary) **2001i:62013**
**Formby, John P.** *see* **Zheng, Buhong et al.**
**Fraser, D. A. S.** *see* **Reid, N.**
**Froda, Sorana M.** (*with* van Eeden, Constance) A uniform saddlepoint expansion for the null-distribution of the Wilcoxon-Mann-Whitney statistic. (English and French summaries) **2001i:62014**
**Fujikoshi, Yasunori** Transformations with improved chi-squared approximations. (English summary) **2001h:62024**
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**Groeneboom, Piet** (*with* Hooghiemstra, Gerard; Lopuhaä, Hendrik P.) Asymptotic normality of the $L_1$ error of the Grenander estimator. (English summary) **2001c:62016**
**(Hallin, Marc)** *see* **Pfanzagl, Johann, 2001b:62014**
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**Hsing, Tailen** Linear processes, long-range dependence and asymptotic expansions. (English summary) **2001m:62020**
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**Kano, Yutaka[1]** Delta method approach in a certain irregular condition. (English summary) **2001b:62013**
**Kaur, Amarjot** (*with* Patil, Ganapati P.; Taillie, C.) Ranked set sample sign test under unequal allocation. (English summary) (*see* **2001j:62007**)
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**Lachout, Petr** (*with* Paulauskas, Vygantas) On the second-order asymptotic distribution of $M$-estimators. (English summary) **2001h:62025**
**López-Blázquez, Fernando** *see* **Barranco-Chamorro, I. et al.**
**Lopuhaä, Hendrik P.** *see* **Groeneboom, Piet et al., 2001c:62016**
**Lu, Xuewen** *see* **Singh, Radhey S., (2001j:62007)**
**Ma, Junling** *see* **Yan, Zaizai et al.**
**Matsunawa, Tadashi** *see* **Yamada, Tomoya, 2001d:62016**
**Mordecki, Ernesto** Asymptotic mixed normality and Hellinger processes. (English summary) **2001d:62014**
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— Rate of convergence in bootstrap approximations with random sample size. (English summary) **2001d:62015**
— On weak convergence of the bootstrap empirical process with random resample size. (English summary) **2001k:62022**
**Nie, Zan Kan** *see* **Yan, Zaizai et al.**
**Pan, Jia Zhu** (*with* Cheng, Shi Hong) Asymptotic expansion for distribution function of moment estimator for the extreme-value index. (English summary)
**Patil, Ganapati P.** *see* **Kaur, Amarjot et al., (2001j:62007)**
**Paulauskas, Vygantas** *see* **Lachout, Petr, 2001h:62025**
**Pfanzagl, Johann** Remark on: "When does Edgeworth beat Berry and Esséen? Numerical evaluations of Edgeworth expansions" [J. Statist. Plann. Inference **63** (1997), no. 1, 19–38; MR 98i:62011] by M. Seoh and M. Hallin. **2001b:62014**
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**Sastri, C. C. A.** *see* **Almudevar, Anthony et al., 2001i:62012**
**Seoh, Munsup** Exact bound for the remainder term in normal approximation for signed linear rank statistics. (English summary) **2001j:62018**
— *see also* **Pfanzagl, Johann, 2001b:62014**
**Singh, Radhey S.** (*with* Lu, Xuewen) Asymptotic normality of estimators for the parameters in the location-scale model with randomly right-censored data. (English summary) (*see* **2001j:62007**)
**Smith, W. James** *see* **Zheng, Buhong et al.**
**Taillie, C.** *see* **Kaur, Amarjot et al., (2001j:62007)**
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**Wang, Qiying** (*with* Jing, Bing-Yi; Zhao, Lin Cheng) The Berry-Esseen bound for Studentized statistics. (English summary) **2001a:62011**
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**Ageel, Mohammad I.** Asymptotic distribution of MLE's of the parameters for a diffusion model with catastrophes. (English summary)
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**Albin, J. M. P.** (*with* Leadbetter, M. R.) Asymptotic behavior of conditional laws and moments of $\alpha$-stable random vectors, with application to upcrossing intensities. (English summary) **2001e:60030**
**Almudevar, Anthony** (*with* Field, Chris; Robinson, John) The density of multivariate $M$-estimates. (English summary) **2001e:62013**
**Anderson, T. W.** Asymptotic distribution of the reduced rank regression estimator under general conditions. (English summary) **2001a:62069**
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**Anīsimov, V. V.** (*with* Kaibah, Hussein Salem) Asymptotic behaviour of solutions of stochastic equations and applications in statistics. (English and Turkish summaries)
**Antoch, Jaromír** (*with* Hušková, Marie) Bayesian-type estimators of change points. (English summary) **2001m:62023**
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**Stern, Steven E.** *see* **DiCiccio, Thomas J. et al.**
**Strasser, H.** (*with* Weber, Ch.) The asymptotic theory of permutation statistics. (English summary) **2001d:62020**
**Volodin, I. N.** (*with* Dzhungurova, O. A.) On limit distributions emerging in the generalized Birnbaum-Saunders model. (English summary) **2001c:62021**
**Wang, Yining** *see* **Gupta, Arjun K. et al.**
**Weber, Ch.** *see* **Strasser, H., 2001d:62020**
**Wichman, Holly A.** *see* **Joyce, Paul et al.**
**Yokoyama, Takahisa** Non-null distributions of the Wald's criteria in random effects growth curve models. (English summary) **2001j:62019**

## Items with secondary classifications in 62F05

**Abu-Dayyeh, Walid** Proof of a certain conjecture about the restricted LRT in case of a bivariate normal distribution. (English summary) **2001f:62011**
**Akritas, Michael G.** (*with* Arnold, Steven F.) Asymptotics for analysis of variance when the number of levels is large. (English summary) **2001j:62089**
**Andrews, Donald W. K.** (*with* Lu, Biao) Consistent model and moment selection procedures for GMM estimation with application to dynamic panel data models. (English summary)
**Arnold, Steven F.** *see* **Akritas, Michael G., 2001j:62089**
**Bai, Jushan** (*with* Ng, Serena) A consistent test for conditional symmetry in time series models. (English summary)
**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) Some sequential-type conditional tests in clinical trials based on generalized randomized play-the-winner rule. (English and Italian summaries)
**Bercu, Bernard** (*with* Gamboa, Fabrice; Lavielle, Marc) Sharp large deviations for Gaussian quadratic forms with applications. (English and French summaries) **2001b:60039**
**Biswas, Atanu** *see* **Bandyopadhyay, Uttam**
**Bolfarine, Heleno** *see* **Gimenez, Patricia et al.**
**Brodeau, F.** Asymptotic results and tests for the choice of approximative models in nonlinear two-phases regression models, heteroscedastic case. (English summary) **2001h:62111**
**Chaturvedi, Ajit** (*with* Rani, Uma) On the classes of two-stage procedures to construct fixed-width confidence regions. (English summary) **2001f:62049**
**Chen, Hanfeng** (*with* Chen, Jia Hua; Kalbfleisch, John D.) A modified likelihood ratio test for homogeneity in finite mixture models. (English summary) **2001k:62023**
**Chen, Jia Hua** *see* **Chen, Hanfeng et al., 2001k:62023**
**Chen, Jie[3]** (*with* Gupta, Arjun K.) ★ Parametric statistical change point analysis. (English summary) **2001g:62001**
**Cheng, Chi-Lun** (*with* Van Ness, John W.) ★ Statistical regression with measurement error. (English summary) **2001k:62001**
**Cheng, Ping[1]** The limit distribution of the restricted log maximum likelihood ratio for mixture models of two normal distributions with unknown mean and variance. (English and Chinese summaries)
**Chistyakov, V. P.** *see* **Selivanov, B. I., 2001f:62037**
**Colosimo, Enrico A.** *see* **Gimenez, Patricia et al.**
**Cressie, Noel** (*with* Pardo, Leandro) Minimum $\varphi$-divergence estimator and hierarchical testing in loglinear models. (English summary)
**Del Barrio Castro, Tomás** (*with* Del Sur Mora, Ana; Suriñach Caralt, Jordi) ADF, PP and KPSS test performance for seasonal adjusted time series. (Spanish. English and Spanish summaries)
**Del Sur Mora, Ana** *see* **Del Barrio Castro, Tomás et al.**
**Elliott, Graham** (*with* Stock, James H.) Confidence intervals for autoregressive coefficients near one. (English summary)
**Esteban, M. D.** (*with* Mayoral, A. M.; Morales, Domingo; Morales Socuellamos, Javier) Some new statistics for testing point null hypotheses with prior information. (English summary) **2001b:62023**
**Fraser, D. A. S.** *see* **Reid, N.**
**Fujikoshi, Yasunori** Transformations with improved chi-squared approximations. (English summary) **2001h:62024**
— Error bounds for asymptotic approximations of the linear discriminant function when the sample sizes and dimensionality are large. (English summary) **2001d:62058**
**Futschik, Andreas** Subset selection in simulation: the Gupta rule and alternatives. (English summary) **2001i:62019**
**Gamboa, Fabrice** *see* **Bercu, Bernard et al., 2001b:60039**
**Gimenez, Patricia** (*with* Bolfarine, Heleno; Colosimo, Enrico A.) Hypotheses testing for error-in-variables models. (English summary)
**Gombay, Edit** Sequential change-point detection with likelihood ratios. (English summary) **2001e:62072**
**Gupta, Arjun K.** *see* **Chen, Jie[3], 2001g:62001**
**Hall, W. J.** *see* **Whitehead, John Raymond et al., 2001h:62150**
**Hansen, Henrik** (*with* Johansen, Søren) Some tests for parameter constancy in cointegrated VAR-models. (English summary) **2001f:62054**
**Hong, Yongmiao** A test for volatility spillover with application to exchange rates. (English summary)
**Inglot, Tadeusz** Generalized intermediate efficiency of goodness-of-fit tests. (English summary) **2001i:62058**
**Jarušková, Daniela** Testing appearance of polynomial trend. (English summary) **2001c:62077**
**Johansen, Søren** *see* **Hansen, Henrik, 2001f:62054**
**Kalbfleisch, John D.** *see* **Chen, Hanfeng et al., 2001k:62023**
**Karunamuni, Rohana J.** Correction note: "Optimal rates of convergence of monotone empirical Bayes tests for uniform distributions" [Statist. Decisions **17** (1999), no. 1, 63–85; MR 2000j:62012]. **2001b:62006**
**Kokoszka, Piotr** (*with* Leipus, Remigijus) Detection and estimation of changes in ARCH processes. **2001h:62166**
**Krieger, Abba M.** *see* **Yakir, Benjamin et al., 2001h:62148**
**Lavielle, Marc** *see* **Bercu, Bernard et al., 2001b:60039**
**Leipus, Remigijus** *see* **Kokoszka, Piotr, 2001h:62166**
**Leybourne, Stephen J.** (*with* Newbold, Paul) Behavior of Dickey-Fuller $t$-tests when there is a break under the alternative hypothesis. (English summary) **2001j:62133**
**Liang, TaChen** Simultaneous inspection for variable sampling acceptance. (English summary) **2001f:62012**
**Lin'kov, Yu. N.** Large deviation theorems and their applications. (Ukrainian. Ukrainian summary)
**Linton, Oliver B.** (*with* Steigerwald, Douglas G.) Adaptive testing in ARCH models. (English summary)
**Löbus, Jörg-Uwe** (*with* Ritter, Lutz) The limiting power of the Durbin-Watson test. (English summary) **2001j:62085**
**Lu, Biao** *see* **Andrews, Donald W. K.**
**Lütkepohl, Helmut** *see* **Saikkonen, Pentti, 2001e:62080**
**Mayoral, A. M.** *see* **Esteban, M. D. et al., 2001b:62023**
**Morales, Domingo** (*with* Pardo, Leandro; Vajda, Igor) Rényi statistics in directed families of exponential experiments. (English summary) **2001c:62018**
— *see also* **Esteban, M. D. et al., 2001b:62023**
**Morales Socuellamos, Javier** *see* **Esteban, M. D. et al., 2001b:62023**
**Mordecki, Ernesto** Asymptotic mixed normality and Hellinger processes. (English summary) **2001d:62014**
**Nabeya, Seiji** Asymptotic distributions for unit root test statistics in nearly integrated seasonal autoregressive models. (English summary) **2001b:62072**
**Newbold, Paul** *see* **Leybourne, Stephen J., 2001j:62133**
**Ng, Serena** *see* **Bai, Jushan**
**Pardo, Leandro** *see* **Morales, Domingo et al., 2001c:62018** *and* **Cressie, Noel**
**Perlman, Michael D.** *see* **Wu, Lang, 2001j:62073**
**Pollak, Moshe** *see* **Yakir, Benjamin et al., 2001h:62148**
**Rani, Uma** *see* **Chaturvedi, Ajit, 2001f:62049**
**Reid, N.** (*with* Fraser, D. A. S.) Higher order asymptotics: costs and benefits. (English summary)
**Ritter, Lutz** *see* **Löbus, Jörg-Uwe, 2001j:62085**
**Royall, Richard M.** On the probability of observing misleading statistical evidence. (English summary) **2001k:62024**
**Rukhin, Andrew L.** Approximate entropy for testing randomness. (English summary) **2001g:62010**
**Saikkonen, Pentti** (*with* Lütkepohl, Helmut) Trend adjustment prior to testing for the cointegrating rank of a vector autoregressive process. (English summary) **2001e:62080**
**Scherb, Hagen** Determination of uniformly most powerful tests in discrete sample spaces. (English summary)
**Selivanov, B. I.** (*with* Chistyakov, V. P.) Two remarks on the multidimensional $\chi^2$ statistic. (Russian. Russian summary) **2001f:62037**
**Shiryaev, Albert N.** (*with* Spokoĭnyĭ, V. G.) ★ Statistical experiments and decisions. **2001h:62006**
**Simons, Gordon** (*with* Yao, Yi-Ching) Asymptotics when the number of parameters tends to infinity in the Bradley-Terry model for paired comparisons. (English summary) **2001c:62080**
**Singh, Baikunth Nath** Efficiencies of certain test statistics against two-state Markov chain. (English and Hindi summaries)
**Spokoĭnyĭ, V. G.** *see* **Shiryaev, Albert N., 2001h:62006**
**Steigerwald, Douglas G.** *see* **Linton, Oliver B.**
**Stock, James H.** *see* **Elliott, Graham**
**Suriñach Caralt, Jordi** *see* **Del Barrio Castro, Tomás et al.**
**Todd, Susan** *see* **Whitehead, John Raymond et al., 2001h:62150**
**Vajda, Igor** *see* **Morales, Domingo et al., 2001c:62018**
**Van Ness, John W.** *see* **Cheng, Chi-Lun, 2001k:62001**
**Wei, Lai Sheng** Empirical Bayes test problems for parameters in a class of linear models. (Chinese. Chinese summary) **2001f:62009**
**Whitehead, John Raymond** (*with* Todd, Susan; Hall, W. J.) Confidence intervals for secondary parameters following a sequential test. (English summary) **2001h:62150**
**Wu, Lang** (*with* Perlman, Michael D.) Testing lattice conditional independence models based on monotone missing data. (English summary) **2001j:62073**
**Xiao, Zhijie** Testing the null hypothesis of stationarity against an autoregressive unit root alternative. (English summary)
**Yakir, Benjamin** (*with* Krieger, Abba M.; Pollak, Moshe) Detecting a change in regression: first-order optimality. (English summary) **2001h:62148**
**Yao, Yi-Ching** *see* **Simons, Gordon, 2001c:62080**

## 62F07 Ranking and selection

**Aoshima, Makoto** (*with* Dudewicz, Edward J.; Hyakutake, Hiroto) Selection of the best normal population: a new exact solution, asymptotically optimal when $k = 2$. (English summary) **2001h:62030**
**Bai, Zhi-Dong** *see* **Chen, Zehua, 2001e:62018**

**Bansal, Naveen K.** (*with* Misra, Neeraj) On ranking treatment effects in a general linear model. (English summary) **2001c:62022**
**Bernhofen, Laura T.** Selecting the best population in comparison with a control: the normal case with common unknown variance. (English summary)
**Chen, Zehua** (*with* Bai, Zhi-Dong) The optimal ranked-set sampling scheme for parametric families. (English summary) **2001e:62018**
**Dudewicz, Edward J.** *see* **Aoshima, Makoto et al., 2001h:62030**
**Duggan, William** *see* **Mukhopadhyay, Nitis, 2001a:62019**
**Fabian, Václav** New modifications of the Bechhofer method. (English summary) **2001k:62026**
**Futschik, Andreas** Subset selection in simulation: the Gupta rule and alternatives. (English summary) **2001i:62019**
**Giani, G.** (*with* Strassburger, K.) Multiple comparison procedures for optimally discriminating between good, equivalent, and bad treatments with respect to a control. (English summary) **2001e:62019**
**Gill, A. N.** (*with* Sharma, Suresh Kumar) A selection procedure for selecting least dispersive life distribution. (English and Italian summaries)
**Hilliard-Lomas, J. L.** (*with* Litvin, Igor) Poisson model for paired comparisons applied to soccer tournaments. (English summary)
**Hochberg, Yosef** (*with* Rabinovitch, Ramon) Ranking by pairwise comparisons with special reference to ordering portfolios. (English summary)
**Huang, Wên T'ao** (*with* Lai, Yao-Tsung) Empirical Bayes procedures for selecting the best population with multiple criteria. (English summary) **2001a:62017**
**Hyakutake, Hiroto** Selecting the component with maximal difference of two multinormal means. (English summary)
— *see also* **Aoshima, Makoto et al., 2001h:62030**
**Jeyaratnam, S.** (*with* Panchapakesan, S.) Selecting from normal populations the one with the largest absolute mean: common unknown variance case. (English summary) (*see* **2001d:62002**)
**Khamnei, Hossein Jabbari** (*with* Kumar, Narinder) Improved confidence bounds for the probability of correct selection: the scale parameter case. (English and Italian summaries)
**Kumar, Narinder** *see* **Khamnei, Hossein Jabbari**
**van der Laan, Mark J.** (*with* van der Laan, Paul) Subset selection based on order statistics from logistic populations. (English summary) **2001j:62020**
**van der Laan, Paul** *see* **van der Laan, Mark J., 2001j:62020**
**Lago, Alessandro** (*with* Pesarin, Fortunato) Nonparametric combination of dependent rankings with application to the quality assessment of industrial products. (English and Italian summaries)
**Lai, Yao-Tsung** *see* **Huang, Wên T'ao, 2001a:62017**
**Liang, TaChen** Simultaneous inspection for variable sampling acceptance. (English summary) **2001f:62012**
**Liese, Friedrich** (*with* Miescke, K. J.) Selection of the best population in models with nuisance parameters. (English summary) **2001a:62018**
**Litvin, Igor** *see* **Hilliard-Lomas, J. L.**
**Miescke, K. J.** *see* **Liese, Friedrich, 2001a:62018**
**Misra, Neeraj** *see* **Bansal, Naveen K., 2001c:62022**
**Mukhopadhyay, Nitis** (*with* Duggan, William) On a two-stage procedure having second-order properties with applications. (English summary) **2001a:62019**
**Panchapakesan, S.** *see* **Jeyaratnam, S., (2001d:62002)**
**Pesarin, Fortunato** *see* **Lago, Alessandro**
**Rabinovitch, Ramon** *see* **Hochberg, Yosef**
**Sanjari Farsipour, N.** Some aspects on evaluating the chosen population. (English summary)
**Sharma, Suresh Kumar** *see* **Gill, A. N.**
**Stoimenova, Eugenia** Evaluating the risk in selection problems. (*see* **2001g:00022**)
**Strassburger, K.** *see* **Giani, G., 2001e:62019**

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**Aoki, Mitsuru** (*with* Aoshima, Makoto) An optimal two-stage procedure in comparison with a control. (Japanese) (*see* **2001g:62003**)
— *see also* **Aoshima, Makoto, 2001h:62147**
**Aoshima, Makoto** (*with* Aoki, Mitsuru) Two-stage procedure having exact consistency and second-order properties for the $s$ best selection. (English summary) **2001h:62147**
— *see also* **Aoki, Mitsuru, (2001g:62003)**
**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) Sequential-type procedures to select the best treatments. (English summary) **2001c:62007**
**Biswas, Atanu** *see* **Bandyopadhyay, Uttam, 2001c:62007**
**Chang, Yi-Ping** (*with* Huang, Wên T'ao) Generalized confidence intervals for the largest value of some functions of parameters under normality. (English summary) **2001j:62031**
**Chen, Ming-Hui** *see* **Ibrahim, Joseph G. et al., 2001f:62042**
**Datta, Sujay** (*with* Mukhopadhyay, Nitis) Nonparametric sequential procedures for selecting the largest center of symmetry and some associated second-order properties. (English summary)
**Finner, H.** Stepwise multiple test procedures and control of directional errors. (English summary) **2001c:62079**
**Gupta, Shanti S.** (*with* Liang, TaChen) On simultaneous selection of good populations. (English summary) **2001b:62005a**
— (*with* Liang, TaChen) Correction note: "On simultaneous selection of good populations". **2001b:62005b**
**Huang, Wên T'ao** *see* **Chang, Yi-Ping, 2001j:62031**
**Ibrahim, Joseph G.** (*with* Chen, Ming-Hui; Ryan, Louise M.) Bayesian variable selection for time series count data. (English summary) **2001f:62042**
**Leu, Cheng-Shiun** (*with* Levin, Bruce) On the probability of correct selection in the Levin-Robbins sequential elimination procedure. (English summary) **2001a:62108**
**Levin, Bruce** *see* **Leu, Cheng-Shiun, 2001a:62108**
**Liang, TaChen** *see* **Gupta, Shanti S., 2001b:62005a** *and* **2001b:62005b**
**Mizushima, Takamasa** Multisample tests for scale based on kernel density estimation. (English summary)
**Mukhopadhyay, Nitis** *see* **Datta, Sujay**
**Rosenbloom, E. S.** Selecting the best of $k$ multinomial parameter estimation procedures using SPRT. (English summary) **2001j:62097**
**Ryan, Louise M.** *see* **Ibrahim, Joseph G. et al., 2001f:62042**
**Zografos, K.** Measures of multivariate dependence based on a distance between Fisher information matrices. (English summary) **2001h:62102**

## 62F10 Point estimation

**Abd-El-Hakim, Nagi S.** (*with* Sultan, Khalaf S.) Maximum likelihood estimates of Weibull parameters based on record values. (English summary)
**Abderrezak, A.** *see* **Kudlaev, E. M., (2001k:00025)**
**Abdushukurov, A. A.** Nonparametric estimation of a distribution function under random two-sided censoring. (*see* **2001k:00025**)
**Abusev, R. A.** Statistical rules of group classification of bivariate exponential populations. (English summary) (*see* **2001a:00043**)
— (*with* Kolegova, N. V.) Comparison of statistical estimators for the parameters of some distributions. (*see* **2001k:00025**)
— Statistical Bayesian estimation for multivariate $T$-distributions. (English summary) (*see* **2001j:62008**)
**del Aguila, Yolanda** *see* **Navarro, Jorge et al.**
**Ahsanullah, Mohammad** *see* **Habibullah, Mohamed**
**Ali, M. Masoom** (*with* Woo, Jungsoo; Jeon, Sangchoon) UMVUE for series in scale parameter of a gamma distribution. (English summary)
— (*with* Woo, Jungsoo; Yoon, Gi-Ern) Effects of an unidentified outlier for parametric estimation in a power function distribution. (English summary) (*see* **2001j:62007**)
**Al-Kadiri, M. Ali** *see* **Al-Saleh, Mohammad F., 2001c:62023**
**Al-Saleh, Mohammad F.** (*with* Al-Kadiri, M. Ali) Double-ranked set sampling. (English summary) **2001c:62023**
**Amari, Shun-ichi** (*with* Kawanabe, M.) Estimating functions in semiparametric statistical models. (English summary) (*see* **2001m:62003**)
**Antoch, Jaromír** (*with* Hušková, Marie) Bayesian-type estimators of change points. (English summary) **2001m:62023**
**Atkinson, Richard A.** *see* **Critchley, Frank et al.**
**Azlarov, T. A.** (*with* Mirvaliev, M.) A chi-square goodness-of-fit test for the Borel-Tanner distribution. (Russian. English and Uzbek summaries)
**Baddeley, Adrian J.** Time-invariance estimating equations. (English summary) **2001j:62021**
**Barranco-Chamorro, I.** (*with* López-Blázquez, Fernando; Moreno-Rebollo, J. L.) Lower bounds for the variance in certain nonregular distributions. (English summary)
**Behboodian, Javad** *see* **Towhidi, M., 2001m:62030**
**Bhapkar, Vasant P.** On the optimality of estimators based on $p$-sufficient statistics. (English summary) **2001d:62021**
**Biazi, Elenice** *see* **Critchley, Frank et al.**
**Biswas, Suddhendu** (*with* Gurung, Amar B.) On a problem of estimating the female foeticide and infant mortality differential by sex based on indirect data. (English summary)
**Bogdan, Krzysztof** (*with* Bogdan, Małgorzata) On existence of maximum likelihood estimators in exponential families. (English summary) **2001c:62024**
**Bogdan, Małgorzata** *see* **Bogdan, Krzysztof, 2001c:62024**
**Bowman, K. O.** (*with* Shenton, L. R.) Maximum likelihood and the Weibull distribution. (English summary)
**Braun, J. V.** (*with* Braun, R. K.; Müller, Hans-Georg) Multiple changepoint fitting via quasilikelihood, with application to DNA sequence segmentation. (English summary) **2001e:62020**
**Braun, R. K.** *see* **Braun, J. V. et al., 2001e:62020**
**Burtness, Barbara A.** *see* **Zhang, Zhongxin et al., 2001b:62019**
**Carrasco, Marine** (*with* Florens, Jean-Pierre) Generalization of GMM to a continuum of moment conditions. (English summary) **2001k:62027**
**Chao, Anne** (*with* Hwang, Wen-Han; Chen, Yu-Cheng; Kuo, C.-Y.) Estimating the number of shared species in two communities. (English summary) **2001a:62020**
**Chen, Hongjian** UMVUE of polynomials of $(EX)^{-1}$ for several natural exponential families on the positive line. (English summary) **2001i:62020**
**Chen, Yu-Cheng** *see* **Chao, Anne et al., 2001a:62020**
**Cheng, Smiley W.** (*with* Chou, Chien Ho) On the blue of the scale parameter of the generalized Pareto distribution. (English summary)
**Chergui, Jamal-Dine** Generalized Blackwell-Rao and Cramer-Rao's inequalities. (English and Italian summaries) **2001f:62013**
**Chou, Chien Ho** *see* **Cheng, Smiley W.**
**Critchley, Frank** (*with* Atkinson, Richard A.; Lu, Guo Bin; Biazi, Elenice) Influence analysis based on the case sensitivity function. (English summary)
**Cui, Qing** (*with* Shi, Ning Zhong) A numerical method for the maximum likelihood estimation of means and variances from normal populations under simultaneous order restrictions. (Chinese. English and Chinese summaries)
**Dahiya, Ram C.** (*with* Saha, Shampa; Lakkis, Hassan) Estimation of exploitation rate by combining mark-recapture procedures with a Creel survey. (English and French summaries)
**Dalal, Siddhartha R.** *see* **Sherman, Robert P. et al.**
**Das, Kalyan** *see* **Sutradhar, Brajendra C.**
**Datta, Somnath** *see* **Satten, Glen A.**
**Delyon, Bernard** (*with* Lavielle, Marc; Moulines, Eric) Convergence of a stochastic approximation version of the EM algorithm. (English summary) **2001h:62031**
**Deo, Rohit S.** On estimation and testing goodness of fit for $m$-dependent stable sequences. (English summary) **2001h:62032**
**Diniz, Carlos A. R.** (*with* Mazucheli, Josmar) Detecting the number of change points in a Poisson sequence: a comparative study. (English summary)
**Dubinko, T. Yu.** Robust estimation of a position parameter for a normal sample with asymmetric contamination. (English summary)
**Durairajan, T. M.** *see* **William, Martin L.**
**van Dyk, David A.** Nesting EM algorithms for computational efficiency. (English summary) **2001k:62028**
**van Eeden, Constance** *see* **van der Laan, Paul, 2001i:62023**

**Eisele, Jeffrey R.** *see* **Gasparini, Mauro**
**El Barmi, Hammou** (*with* Nelson, Paul I.) Inference from stable distributions. (English summary) (*see* **2001m:62003**)
**Feng, Yu Ying** *see* **Zhao, Sheng Li et al.**
**Fernández, Arturo J.** On maximum likelihood prediction based on type II doubly censored exponential data. (English summary) **2001a:62021**
**Florens, Jean-Pierre** *see* **Carrasco, Marine, 2001k:62027**
**Flury, Bernhard** (*with* Zoppè, Alice) Exercises in EM. (English summary)
**Fountain, Robert L.** A class of closeness criteria. (English summary)
**Fourdrinier, Dominique** (*with* Lemaire, Anne-Sophie) Estimation of the mean of a $l_1$-exponential multivariate distribution. (English summary) **2001i:62021**
**Fraser, D. A. S.** (*with* Reid, N.; Wu, Jianrong) Estimating functions and higher order significance. (English summary) (*see* **2001m:62003**)
**Gaffke, Norbert** (*with* Heiligers, Berthold) Numerical methods for linear minimax estimation. (English summary)
**Gajjar, A. V.** *see* **Patel, M. N.**
**Galkin, V. Ya.** (*with* Ufimtsev, M. V.) Estimating the parameters of $k$th-order Poisson distributions. (English summary) (*see* **2001f:00039**)
**Gao, Rong Chun** *see* **Kawamura, Toshihiko et al.**
**García, Gloria** (*with* Oller, Josep M.) Minimum Riemannian risk equivariant estimator for the univariate normal model. (English summary) **2001m:62024**
**Gasparini, Mauro** (*with* Eisele, Jeffrey R.) Correction to: "A curve-free method for phase I clinical trials" [Biometrics **56** (2000), no. 2, 609–615; 1795024].
**Gastwirth, Joseph L.** *see* **Zheng, Gang, 2001k:62030**
**Geng, W. J.** (*with* Wan, Alan T. K.) On the sampling performance of an inequality pre-test estimator of the regression error variance under LINEX loss. (English summary)
**Ghosh, Kaushik** (*with* Jammalamadaka, S. Rao) A general estimation method using spacings. (English summary)
**Godambe, V. P.** Estimating functions: a synthesis of least squares and maximum likelihood methods. (English summary) (*see* **2001m:62003**)
**Golubev, G. K.** (*with* Härdle, Wolfgang) Second order minimax estimation in partial linear models. (English summary) **2001i:62022**
**Greenwood, Priscilla E.** (*with* Wefelmeyer, Wolfgang) Partial likelihood and estimating equations. (English summary) (*see* **2001m:62003**)
**Guo, Da Wei** A generalized maximum likelihood estimation for linear functions of a parameter vector. (Chinese. English and Chinese summaries)
**Gurung, Amar B.** *see* **Biswas, Suddhendu**
**Habibullah, Mohamed** (*with* Ahsanullah, Mohammad) Estimation of parameters of a Pareto distribution by generalized order statistics. (English summary)
**Handa, B. R.** (*with* Kambo, N. S.) Estimation of common parameter of several exponential distributions. (English summary)
**Härdle, Wolfgang** *see* **Golubev, G. K., 2001i:62022**
**Heiligers, Berthold** *see* **Gaffke, Norbert**
**Herrmann, Horst** (*with* Liese, Friedrich) Asymptotically uniformly distributed priors and Bayes estimators in mixed models. (English summary) **2001c:62025**
**Heyde, C. C.** Avoiding the likelihood. (English summary) (*see* **2001m:62003**)
**Hiejima, Y.** *see* **Yanagimoto, Takemi, (2001m:62003)**
**Ho, Yu-Yun K.** *see* **Sherman, Robert P. et al.**
**Hou, Zi Yan** (*with* Yan, Guang Song; Yuan, Xin Feng) The sample breakdown point of a test for maximum likelihood estimation of the parameter of an exponential distribution. (Chinese. English and Chinese summaries)
**Hu, Bi Jin** Parametric estimation of convolutional-model and simulation. (Chinese. English and Chinese summaries)
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**Lau, Tai Shing** *see* **Shi, Jian$^2$, 2001a:62079**
**Lee, Stephen M.-S.** *see* **Hall, P. G. et al., 2001b:62037**
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**Pooi, Ah-Hin** *see* **Lim, Ming Huat**
**Qiu, Peihua** (*with* Tsokos, Chris P.) Accelerated life testing model building with Box-Cox transformation. (English summary) **2001i:62109**
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**Reid, N.** (*with* Fraser, D. A. S.) Higher order asymptotics: costs and benefits. (English summary)
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**Tang, Nian Sheng** *see* **Zhu, Zhong Yi et al.**
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**Ursianu, Emiliana** Two-stage simultaneous statistical inference in linear model. (English summary)
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**Wang, Hsiuying** Improved confidence estimators for the multivariate normal confidence set. (English summary)
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**Ye, Keying** *see* **Eno, Daniel R.**
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## 62F30 Inference under constraints

**El Barmi, Hammou** (*with* Rothmann, Mark D.) Estimation of weighted multinomial probabilities under log-convex constraints. (English summary) **2001g:62021**
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**Fernández, Miguel A.** (*with* Rueda, Cristina; Salvador González, Bonifacio) Parameter estimation under orthant restrictions. (English and French summaries) **2001h:62050**
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**Abu-Dayyeh, Walid** Proof of a certain conjecture about the restricted LRT in case of a bivariate normal distribution. (English summary) **2001f:62011**
**Anido, Carmen** (*with* Valdés, Teófilo) An iterative estimating procedure for probit-type nonresponse models in surveys with call backs. (English summary)
**Blaker, Helge** Minimax estimation in linear regression under restrictions. (English summary) **2001h:62116**
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**Martín Díaz, Miguel** *see* **Lillo, Rosa E., 2001d:62026**
**Poiraud-Casanova, Sandrine** (*with* Thomas-Agnan, Christine) About monotone regression quantiles. (English summary) **2001c:62042**
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**Srivastava, Muni Shanker** (*with* Kubokawa, T.) Improved nonnegative estimation of multivariate components of variance. (English summary) **2001f:62035**
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**Stern, Steven E.** (*with* Welsh, A. H.) Likelihood inference for small variance components. (English and French summaries) **2001m:62083**
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**Tian, Guo-Liang** *see* **Fang, Kai-Tai et al., 2001m:62037**
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## 62F35 Robustness and adaptive procedures

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**Atanasov, Dimitar** (*with* Neykov, Neyko) About the finite sample breakdown point of the WLTE($k$) estimators. (English summary) (*see* **2001c:00014**)
**Bern, Marshall** (*with* Eppstein, David) Multivariate regression depth. (English summary) (*see* **2001i:68009**)
**Berrendero, José R.** (*with* Zamar, Ruben H.) Global robustness of location and dispersion estimates. (English summary) **2001d:62031**
**Bianco, Ana** (*with* Boente, Graciela; di Rienzo, Julio) Some results for robust GM-based estimators in heteroscedastic regression models. (English summary) **2001h:62051**
**Boente, Graciela** *see* **Bianco, Ana et al., 2001h:62051**
**Bui, Q. M.** *see* **Huggins, R. M. et al.**
**Büning, Herbert** Robustness and power of parametric, nonparametric, robustified and adaptive tests—the multi-sample location problem. (English summary)
**Chen, Zhiqiang$^1$** Breakdown point of Schuster-Narvarte's location estimator. (English summary) **2001b:62025**
**Choi, Edwin** (*with* Hall, P. G.; Presnell, Brett) Rendering parametric procedures more robust by empirically tilting the model. (English summary) **2001d:62032**
**Collins, John R.** Robustness comparisons of some classes of location parameter estimators. (English summary)
**Criado, Regino** *see* **Ríos Insua, David, (2001e:62004)**
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**Fortini, Sandra** (*with* Ruggeri, Fabrizio) On the use of the concentration function in Bayesian robustness. (English summary) (*see* **2001e:62004**)
**Gatto, Riccardo** Multivariate saddlepoint test for the wrapped normal model. (English summary)
**Gustafson, Paul** On measuring sensitivity to parametric model misspecification. (English summary) **2001m:62042**
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**Hallin, Marc** (*with* Mizera, Ivan) Unimodality and the asymptotics of $M$-estimators. (English summary)
**Hirayama, Shin-ichi** *see* **Aoshima, Makoto et al., (2001g:62003)**
**Hoang, H. N.** *see* **Huggins, R. M. et al.**
**Huggins, R. M.** (*with* Bui, Q. M.; Hoang, H. N.) On the use of robust methods in twin studies. (English summary)
**Knopov, Pavel S.** On a nonstationary model of $M$-estimators with discrete time. (Ukrainian. Ukrainian summary)
**van Kreveld, Marc** (*with* Mitchell, Joseph S. B.; Rousseeuw, Peter J.; Sharir, Micha; Snoeyink, Jack Scott; Speckmann, Bettina) Efficient algorithms for maximum regression

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**Lavine, Michael** (*with* Perone Pacifico, Marco; Salinetti, Gabriella; Tardella, Luca) Linearization techniques in Bayesian robustness. (English summary) **2001h:62052**
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**Markatou, Marianthi** Weighting games in robust linear regression. (English summary) **2001d:62033**
**Maronna, Ricardo A.** (*with* Yohai, Víctor J.) Robust regression with both continuous and categorical predictors. (English summary) **2001i:62031**
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**Müller, Christine H.** $L_1$-tests in linear models: tests with maximum relative power. (English summary)
**Nadarajah, S.** *see* **Ruiz Espejo, Mariano**
**Neykov, Neyko** *see* **Atanasov, Dimitar**, (**2001c:00014**)
**Perone Pacífico, Marco** *see* **Lavine, Michael et al.**, **2001h:62052**
**Presnell, Brett** *see* **Choi, Edwin et al.**, **2001d:62032**
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**Shyamalkumar, N. D.** Likelihood robustness. (English summary) (*see* **2001e:62004**)
**Sivaganesan, Siva** Global and local robustness approaches: uses and limitations. (English summary) (*see* **2001e:62004**)
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**Tanno, Masahiro** *see* **Aoshima, Makoto et al.**, (**2001g:62003**)
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**Van Aelst, Stefan** (*with* Rousseeuw, Peter J.) Robustness of deepest regression. (English summary) **2001c:62037**
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**Almudevar, Anthony** (*with* Field, Chris; Robinson, John) The density of multivariate $M$-estimates. (English summary) **2001e:62013**
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**Andrieu, Christophe** (*with* Doucet, A.; Fitzgerald, W. J.; Pérez, J.-M.) Bayesian computational approaches to model selection. (*see* **2001m:00024**)
**Arellano-Valle, R. B.** *see* **Branco, Marcia D. et al.**, **2001h:62038**
**Arias, J. Pablo** *see* **Martín, Jacinto**, **2001h:62044**
**Atkinson, Anthony C.** *see* **Riani, Marco**
**Azzalini, Adelchi** (*with* Hall, P. G.) Reducing variability using bootstrap methods with qualitative constraints. (English summary) **2001m:62048**
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**Becker, Claudia** *see* **Gather, U.**
**Berger, James O.** (*with* Ríos Insua, David; Ruggeri, Fabrizio) Bayesian robustness. (English summary) (*see* **2001e:62004**)
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**Betrò, Bruno** (*with* Guglielmi, Alessandra) Methods for global prior robustness under generalized moment conditions. (English summary) **2001h:62037**
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**Chi, Lee-Meng** (*with* Pooi, Ah-Hin) Confidence regions based on likelihood ratio in a nonlinear model. (English summary)
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**Critchley, Frank** *see* **Wang, Dong Q.**, **2001i:62082**
**Croux, Christophe** (*with* Haesbroeck, Gentiane) Principal component analysis based on robust estimators of the covariance or correlation matrix: influence functions and efficiencies. (English summary) **2001e:62056**
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**Dey, Dipak K.** (*with* Micheas, Athanasios C.) Ranges of posterior expected losses and $\epsilon$-robust actions. (English summary) **2001h:62040**
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**Duan, Qing-tang** (*with* Gui, Qing-ming) Robustifying biased estimation in linear model. (English and Chinese summaries)
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**Gui, Qing-ming** *see* **Duan, Qing-tang**
**Gustafson, Paul** Local robustness in Bayesian analysis. (English summary) (*see* **2001e:62004**)
**Haesbroeck, Gentiane** *see* **Croux, Christophe**, **2001e:62056**
**Hall, P. G.** *see* **Azzalini, Adelchi**, **2001m:62048**
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**Kadane, Joseph B.** (*with* Salinetti, Gabriella; Srinivasan, Cidambi) Stability of Bayes decisions and applications. (English summary) (*see* **2001e:62004**)
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**Kim, Myung Geun** Multivariate outliers and decompositions of Mahalanobis distance. (English summary) **2001h:62104**
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**Koul, Hira L.** (*with* Surgailis, Donatas) Second-order behavior of $M$-estimators in linear regression with long-memory errors. (English summary) **2001m:62101**
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**Landsman, Zinoviy** On the minimum of the Fisher information about the scale parameter and the singular Sturme-Liouville problem. (English summary) [On the minimum of the Fisher information about the scale parameter and the singular Sturm-Liouville problem] **2001b:62003**
**Lee, Sangyeol** Limiting distributions of trimmed least squares estimators in unstable AR(1) models. (English summary)
**Lee, Seung-Ho** *see* **Yang, Jinsan**
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**Moreno Bas, Elías** Global Bayesian robustness for some classes of prior distributions. (English summary) **2001h:62045**
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**Müller, Christine H.** Asymptotic normality and efficiency of variance components estimators with high breakdown points. (English summary) **2001i:62027**
**Ng, Edmund T. M.** (*with* Cook, Richard J.) Robust inference for bivariate point processes. (English and French summaries) **2001a:62110**
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**Paulauskas, Vygantas** *see* **Lachout, Petr, 2001h:62025**
**Pérez, J.-M.** *see* **Andrieu, Christophe et al., (2001m:00024)**
**Polyak, B. T.** (*with* Shcherbakov, P. S.) Random spherical uncertainty in estimation and robustness. (English summary) **2001i:93116**
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## 62F40 Bootstrap, jackknife and other resampling methods

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**Huang, Bin** A likelihood ratio method for variance reduction in stochastic simulations. (Chinese. English and Chinese summaries)
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## 62Gxx Nonparametric inference

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**(Schimek, Michael G.)** *see* **Smoothing and regression, 2001f:62006**

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**Stern, Steven N.** *see* **Gurmu, Shiferaw et al., 2001e:62029**
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**Thomas-Agnan, Christine** *see* **Poiraud-Casanova, Sandrine, 2001c:62042**
**Thompson, Peter** *see* **Chen, Lin-An et al.**
**Tiwari, Ram C.** *see* **Kvam, Paul H. et al., 2001k:62044**
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**Tsai, Chih-Ling** *see* **Cai, Zongwu et al., 2001j:62033**
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**Wolf, Michael[3]** *see* **Politis, Dimitris N. et al., 2001d:62047**
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## 62G15 Tolerance and confidence regions

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**Cui, Heng Jian** (*with* Yuan, Xiu Jiu) Smoothed empirical likelihood confidence intervals for quantiles in the presence of auxiliary information. (Chinese. English and Chinese summaries)
**Eimahl, John H. J.** (*with* McKeague, Ian W.) Confidence tubes for multiple quantile plots via empirical likelihood. (English summary) **2001h:62090**
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**Lumel'skiĭ, Ya. P.** *see* **Ivshin, V. V.**
**McKeague, Ian W.** *see* **Eimahl, John H. J., 2001h:62090**
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**Romano, Joseph P.** (*with* Wolf, Michael[3]) Finite sample nonparametric inference and large sample efficiency. (English summary) **2001i:62059**
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**Nguyen Van Toan** On the asymptotic accuracy of the bootstrap with random sample size. (English summary)
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**Tsao, Min** (*with* Zhou, Julie) On the robustness of empirical likelihood ratio confidence intervals for location. (English and French summaries)
**Wei, Bo Cheng** *see* **Zhu, Zhong Yi et al.**
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## 62G20 Asymptotic properties

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**Aly, Emad-Eldin A. A.** *see* **Abd-Rabou, Abd-Elnaser S., 2001i:62060**
**Borkowf, Craig B.** On multidimensional contingency tables with categories defined by the empirical quantiles of the marginal data. (English summary)
**Chen, Ming Hua[2]** Strong consistency of estimators in a semi-parametric model with complete and censored data. (Chinese. English and Chinese summaries)
**Cristóbal Cristóbal, José Antonio** (*with* Alcalá, J. T.) Nonparametric regression estimators for length biased data. (English summary) **2001h:62091**
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**Inglot, Tadeusz** On large deviation theorem for data-driven Neyman's statistic. (English summary) **2001a:62062**
**Kohler, Michael** Inequalities for uniform deviations of averages from expectations with applications to nonparametric regression. (English summary) **2001k:62065**
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**Liese, Friedrich** (*with* Lorz, Udo) Contiguity and LAN-property of sequences of Poisson processes. (English summary) **2001a:62063**
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**Park, Hyo-Il** A study on the scores for right censored data. (English summary) **2001a:62064**
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**Song, Li Xin** On the relationship between limit distribution class of random projection pursuit empirical distributions and some important distribution classes. (Chinese. English and Chinese summaries)
— (*with* Xue, Hong Qi) Asymptotic properties of a kind of sieve MLE. (Chinese. English and Chinese summaries) **2001h:62092**
**Sugakova, E. V.** *see* **Maĭboroda, R. Ê.**
**Tripathi, Gautam** Local semiparametric efficiency bounds under shape restrictions. (English summary) **2001m:62066**
**Wang, Hong** Random weighting approximation for smooth $L$-statistics. (Chinese. English and Chinese summaries)
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**Wefelmeyer, Wolfgang** Quasi-likelihood regression models for Markov chains. (English summary) (*see* **2001m:62003**)
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**Akahira, Masafumi** The concept of normalized deficiency and its applications. (English summary) **2001d:62024**
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**Aneiros-Pérez, Germán** Bandwidth selection in kernel smoothing of the nonparametric part in a partial linear model with autoregressive errors. (Spanish. English and Spanish summaries)
**Anevski, Dragi** ★ Nonparametric functional estimation under order restrictions. **2001c:62044**
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**Cai, Zongwu** (*with* Masry, Elias) Nonparametric estimation of additive nonlinear ARX time series: local linear fitting and projections. (English summary) **2001h:62157**
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**Cardot, Hervé** Nonparametric estimation of smoothed principal components analysis of sampled noisy functions. (English summary) **2001e:62037**
**Carroll, Raymond J.** *see* **Lin, Xihong, 2001k:62055**
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**Chang, I-Shou** (*with* Hsiung, Chao A.; Wu, Su-Mei) Estimation in a proportional hazard model for semi-Markov counting process. (English summary) **2001j:62121**
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**Chen, Ming Hua[2]** Strong consistency of estimates in regression analysis for contaminated data. (Chinese. English and Chinese summaries)
— The convergence rate of parameter estimates in a semi-parametric model under a fixed design. (Chinese. English and Chinese summaries)
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**Chen, Ping[2]** Some large sample results for nonparametric estimators under the competing risks case. (English and Chinese summaries) **2001d:62034**
**Chen, Song Xi** Probability density function estimation using gamma kernels. (English summary) **2001h:62061**
— (*with* Qin, Yong Song) Empirical likelihood confidence intervals for local linear smoothers. (English summary) **2001k:62054**
**Chen, Willa W.** *see* **Hurvich, Clifford M., 2001b:62076**
**Chen, Zehua** The optimal ranked-set sampling scheme for inference on population quantiles. (English summary)
**Cheng, Ming-Yen** (*with* Choi, Edwin; Fan, Jianqing; Hall, P. G.) Skewing methods for two-parameter locally parametric density estimation. (English summary) **2001h:62062**
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**Cramer, Erhard** Asymptotic estimators of the sample size in a record model. (English summary) **2001b:60016**
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**Crowder, Martin** Tests for a family of survival models based on extremes. (English summary) (*see* **2001c:62004**)
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**Drees, Holger** (*with* de Haan, Laurens; Resnick, Sidney I.) How to make a Hill plot. (English summary) **2001m:62069**
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**Draisma, G.** (*with* de Haan, Laurens; Peng, Liang; Pereira, T. T.) A bootstrap-based method to achieve optimality in estimating the extreme-value index. (English summary) **2001j:62034**
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**He, Xuming** *see* **Bai, Zhi-Dong, 2001g:62035**
**Kim, Jeankyung** Rate of convergence of depth contours: with application to a multivariate metrically trimmed mean. (English summary) **2001j:62066**
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**Biazi, Elenice** *see* **Critchley, Frank et al.**
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**Büning, Herbert** Robustness and power of parametric, nonparametric, robustified and adaptive tests—the multi-sample location problem. (English summary)
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**Donoho, David L.** (*with* Yu, Thomas P. Y.) Nonlinear pyramid transforms based on median-interpolation. (English summary) **2001g:42065**
**Einsporn, Richard L.** *see* **Mays, James E. et al.**
**Fan, Jianqing** (*with* Jiang, Jiancheng) Variable bandwidth and one-step local $M$-estimator. (English summary) **2001j:62051**
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**García-Escudero, Luis A.** (*with* Gordaliza, Alfonso; Matrán, Carlos) A central limit theorem for multivariate generalized trimmed $k$-means. (English summary) **2001a:60026**
**Gather, U.** (*with* Becker, Claudia) The curse of dimensionality—a challenge for mathematical statistics.
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**Lu, Guo Bin** *see* **Critchley, Frank et al.**
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**Mount, David M.** (*with* Netanyahu, Nathan S.; Piatko, Christine D.; Silverman, Ruth; Wu, Angela Y.) Quantile approximation for robust statistical estimation and $k$-enclosing problems. (English summary)
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**Starnes, B. A.** (*with* Birch, Jeffrey B.) Asymptotic results for model robust regression. (English summary) **2001k:62058**
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**Al Odat, M. Taleb** (*with* Al-Saleh, Mohammad F.) A variation of ranked set sampling. (English summary)
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**Blagoveshchenskii, Yu. N.** (*with* Svyatodukh, I. V.) Regression models for quantiles. (*see* **2001k:00025**)
**Fernholz, Luisa Turrin** Target estimation and implications to robustness. (English summary)
**Fokianos, Konstantinos** (*with* Kedem, Benjamin; Qin, Jing[1]; Short, David A.) A semiparametric approach to the one-way layout. (English summary)
**Heilig, Charles** (*with* Nolan, Deborah) Limit theorems for the infinite-degree $U$-process. (English summary)
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**Liu, Regina Y.** (*with* Parelius, Jesse M.; Singh, Kesar) Multivariate analysis by data depth: descriptive statistics, graphics and inference. (English summary) **2001m:62071**
**Manski, Charles F.** *see* **Horowitz, Joel L., 2001j:62067**
**Mojirsheibani, Majid** A kernel-based combined classification rule. (English summary) **2001b:62046**
**Muttlak, Hassen A.** (*with* Al-Saleh, Mohammad F.) Recent developments in ranked set sampling. (English summary)
— *see also* **Samawi, Hani M.**
**Nolan, Deborah** *see* **Heilig, Charles**
**Parelius, Jesse M.** *see* **Liu, Regina Y. et al., 2001m:62071**
**Pavlov, D. A.** (*with* Serykh, A. P.) Confidence estimation of conditional risk for the $k$-nearest-neighbors classification. (*see* **2001k:00025**)
**Petrone, Sonia** (*with* Roberts, Gareth O.; Rosenthal, Jeffrey S.) A note on convergence rates of Gibbs sampling for nonparametric mixtures. (English summary) **2001h:62093**
**Qin, Jing[1]** *see* **Fokianos, Konstantinos et al.**
**(Raghunathan, T. E.)** *see* **Horowitz, Joel L., 2001j:62067**
**Roberts, Gareth O.** *see* **Petrone, Sonia et al., 2001h:62093**
**Rosenthal, Jeffrey S.** *see* **Petrone, Sonia et al., 2001h:62093**
**Samawi, Hani M.** (*with* Muttlak, Hassen A.) On ratio estimation using median ranked set sampling. (English summary)
**Serykh, A. P.** *see* **Pavlov, D. A., (2001k:00025)**
**Short, David A.** *see* **Fokianos, Konstantinos et al.**
**Singh, Kesar** *see* **Liu, Regina Y. et al., 2001m:62071**
**Svyatodukh, I. V.** *see* **Blagoveshchenskii, Yu. N., (2001k:00025)**

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**Barnett, Ofra** (*with* Cohen, Ayala) The histogram and boxplot for the display of lifetime data. (English summary)
**Basu, Sujit K.** *see* **Mitra, Murari**
**Böhning, Dankmar** ★ Computer-assisted analysis of mixtures and applications. (English summary) **2001a:62001**
**Bosq, D.** ★ Linear processes in function spaces. (English summary) **2001k:60054**
**Carriere, Jacques F.** Bivariate survival models for coupled lives. (English summary)
**Clyde, Merlise** (*with* George, Edward I.) Flexible empirical Bayes estimation for wavelets. (English summary) **2001h:62125**
**Cohen, Ayala** *see* **Barnett, Ofra**
**Conley, T. G.** GMM estimation with cross sectional dependence. (English summary) **2001c:62116**
**Datta, Sujay** (*with* Mukhopadhyay, Nitis) Nonparametric sequential procedures for selecting the largest center of symmetry and some associated second-order properties. (English summary)
**DeMasi, Ralph A.** Statistical methods for multivariate failure time data and competing risks. (*see* **2001c:62002**)
**Evgeniou, Theodoros** (*with* Pontil, Massimiliano) On the $V_\gamma$ dimension for regression in reproducing kernel Hilbert spaces. (English summary) **2001h:68066**
**Frey, Michael R.** (*with* Malott Frey, Carolin) Tolerance-based error reduction in multi-agent bioassays. (English and French summaries)
**George, Edward I.** *see* **Clyde, Merlise, 2001h:62125**
**Kennedy, Marc C.** A Bayesian approach to computing posterior distribution and quantile functions. (English summary) **2001k:62035**
**Klasa, Stan** *see* **Krzyżak, Adam, (2001i:05002)**
**Knutova, E. M.** *see* **Shat·skikh, S. Ya.**
**Kowalczyk, Teresa** On decomposition of $m \times m$ statistical tables based on grade dependence measures. (English summary)
— (*with* Niewiadomska-Bugaj, M.) Decomposition of Kendall's $\tau$: implications for clustering. (English summary) **2001b:62050**
**Krzyżak, Adam** (*with* Klasa, Stan) On almost sure convergence and rates of radial bases function networks classifiers. (English summary) (*see* **2001i:05002**)
**Lachin, John M.** ★ Biostatistical methods. (English summary) **2001h:62185**
**Lago, Alessandro** (*with* Pesarin, Fortunato) Nonparametric combination of dependent rankings with application to the quality assessment of industrial products. (English and Italian summaries)
**Lewbel, Arthur** Identification of the binary choice model with misclassification. (English summary)
**Malott Frey, Carolin** *see* **Frey, Michael R.**

**Massart, Pascal** Some applications of concentration inequalities to statistics. (English and French summaries) **2001m:60012**
**Mitra, Murari** (*with* Basu, Sujit K.) An optimum ordering policy and its estimation in a two-supplier inventory model with uncertainties in supply. (English summary)
**Mukhopadhyay, Nitis** *see* **Datta, Sujay**
**Muliere, P.** (*with* Secchi, Piercesare; Walker, Stephen G.) Urn schemes and reinforced random walks. (English summary) **2001h:62011**
**Muttlak, Hassen A.** *see* **Rakhimov, I. U.**
**Niewiadomska-Bugaj, M.** *see* **Kowalczyk, Teresa, 2001b:62050**
**Pavlov, D. A.** (*with* Serykh, A. P.) A modified classification algorithm of the $k$-nearest neighbor type. (Russian. English and Russian summaries) **2001j:62077**
**Pesarin, Fortunato** *see* **Lago, Alessandro**
**Pontil, Massimiliano** *see* **Evgeniou, Theodoros, 2001h:68066**
**Rakhimov, I. U.** (*with* Muttlak, Hassen A.) Random ranked set samples. (English summary)
**Regazzini, Eugenio** (*with* Sazonov, Vyacheslav Vasil'evich) Approximation of distributions of random probabilities by mixtures of Dirichlet distributions with applications to nonparametric Bayesian statistical inferences. (Russian. Russian summary) **2001m:62041**
**Sazonov, Vyacheslav Vasil'evich** *see* **Regazzini, Eugenio, 2001m:62041**
**Secchi, Piercesare** *see* **Muliere, P. et al., 2001h:62011**
**Sen, Pranab Kumar[1]** Non-parametrics in bioenvironmental and public health statistics. (*see* **2001c:62002**)
**Serykh, A. P.** *see* **Pavlov, D. A., 2001j:62077**
**Shat·skikh, S. Ya.** (*with* Knutova, E. M.) Reproducibility of conditional quantiles of the multivariate Student distribution. (Russian. English and Russian summaries)
**Solo, Victor** Limits to estimation in stochastic ill-conditioned inverse problems. (English summary) **2001i:94024**
**Taber, Christopher R.** Semiparametric identification and heterogeneity in discrete choice dynamic programming models. (English summary) **2001b:62086**
**Vapnik, Vladimir N.** ★ The nature of statistical learning theory. (English summary) **2001c:68110**
**de Vries, Casper G.** Second order tail effects. (English summary) (*see* **2001k:62004**)
**Walker, Stephen G.** *see* **Muliere, P. et al., 2001h:62011**

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**Lecture Notes in Statistics** *see* **Bosq, D., 2001k:60054**

## 62Hxx Multivariate analysis [see also 60Exx]

### 62H05 Characterization and structure theory

**Anderson, T. W.** A note on a vector-variate normal distribution and a stationary autoregressive process. (English summary) **2001a:62067**
**Andersson, Steen A.** (*with* Madigan, David; Perlman, Michael D.; Richardson, Thomas S.) Graphical Markov models in multivariate analysis. **2001h:62094**
**Arnold, Barry C.** (*with* Beaver, Robert J.) Some skewed multivariate distributions. (English summary) (*see* **2001e:00025**)
— (*with* Beaver, Robert J.) Hidden truncation models. (English summary) **2001d:62052**
— (*with* Beaver, Robert J.) The skew-Cauchy distribution. (English summary)
— (*with* Castillo, Enrique; Sarabia, José Maria; González-Vega, Laureano) Multiple modes in densities with normal conditionals. (English summary) **2001i:62063**
**Averous, Jean** (*with* Dortet-Bernadet, Jean-Luc) LTD and RTI dependence orderings. (English and French summaries) **2001e:62050**
**Beaver, Robert J.** *see* **Arnold, Barry C., 2001d:62052** *and* **(2001e:00025)**
**Bura, Efstathia** Dimension reduction via parametric inverse regression. (English summary)
**Capéraà, Philippe** (*with* Fougères, Anne-Laure; Genest, Christian) Bivariate distributions with given extreme value attractor. (English summary) **2001h:62095**
**Castillo, Enrique** *see* **Arnold, Barry C. et al., 2001i:62063**
**Chen, Sean X.** General properties and estimation of conditional Bernoulli models. (English summary) **2001i:62064**
**Chiaromonte, Francesca** A reduction paradigm for multivariate laws. (English summary)
**Ciudad, N. Martin** *see* **Requena, F., 2001j:62068**
**Cressie, Noel** *see* **Kaiser, Mark S., 2001i:62066**
**Dauxois, Jacques** (*with* Nkiet, Guy Martial) Lois asymptotiques de fonctions des valeurs propres d'une suite d'opérateurs aléatoires auto-adjoints. (English and French summaries) [Asymptotic distributions for some functions of the eigenvalues of a sequence of random selfadjoint operators] **2001a:62068**
**Dortet-Bernadet, Jean-Luc** *see* **Averous, Jean, 2001e:62050**
**Elnaggar, Mohamed** (*with* Mukherjea, Arunava) Identification of the parameters of a trivariate normal vector by the distribution of the minimum. (English summary) **2001h:62096**
**Fougères, Anne-Laure** *see* **Capéraà, Philippe et al., 2001h:62095**
**Genest, Christian** *see* **Capéraà, Philippe et al., 2001h:62095**
**González-Vega, Laureano** *see* **Arnold, Barry C. et al., 2001i:62063**
**Hu, Duan Ping** The inverse problem of elliptically contoured distribution. (Chinese. English and Chinese summaries)
**Joe, Harry** (*with* Ma, Chunsheng) Multivariate survival functions with a min-stable property. (English summary) **2001i:62065**
**Johnson, Norman Lloyd[2]** (*with* Kotz, Samuel) On an $L_1$-measure of dependence for modified bivariate uniform distributions. (English and Italian summaries)
**Jørgensen, Bent** (*with* Lauritzen, Steffen L.) Multivariate dispersion models. (English summary) **2001k:62068**
**Kaiser, Mark S.** (*with* Cressie, Noel) The construction of multivariate distributions from Markov random fields. (English summary) **2001i:62066**
**Kotz, Samuel** *see* **Johnson, Norman Lloyd[2]**
**Lauritzen, Steffen L.** *see* **Jørgensen, Bent, 2001k:62068**
**Letac, Gérard** (*with* Massam, Hélène) Representations of the Wishart distributions. (English summary) **2001i:62067**
**Ma, Chunsheng** *see* **Joe, Harry, 2001i:62065**
**Madigan, David** *see* **Andersson, Steen A. et al., 2001h:62094**
**Massam, Hélène** *see* **Letac, Gérard, 2001i:62067**
**Mukherjea, Arunava** *see* **Elnaggar, Mohamed, 2001h:62096**
**Nkiet, Guy Martial** *see* **Dauxois, Jacques, 2001a:62068**
**Peña, Daniel** (*with* Prieto, Francisco J.) The kurtosis coefficient and the linear discriminant function. (English summary)
**Perlman, Michael D.** *see* **Andersson, Steen A. et al., 2001h:62094**
**Prieto, Francisco J.** *see* **Peña, Daniel**
**Requena, F.** (*with* Ciudad, N. Martin) Characterization of maximum probability points in the multivariate hypergeometric distribution. (English summary) **2001j:62068**
**Richardson, Thomas S.** *see* **Andersson, Steen A. et al., 2001h:62094**
**Rousseeuw, Peter J.** (*with* Ruts, Ida) The depth function of a population distribution. (English summary) **2001d:62053**
**Ruts, Ida** *see* **Rousseeuw, Peter J., 2001d:62053**
**Sarabia, José Maria** *see* **Arnold, Barry C. et al., 2001i:62063**
**Serfling, Robert** *see* **Zuo, Yijun, 2001h:62097**
**Shi, Dao Ji** *see* **Sun, Bing Kun**
**Shinozaki, Nobuo** *see* **Yamamoto, Wataru**
**Sun, Bing Kun** (*with* Shi, Dao Ji) Tail dependence in bivariate Cauchy distribution. (Chinese. English and Chinese summaries)
**Yamamoto, Wataru** (*with* Shinozaki, Nobuo) Two principal points for multivariate location mixtures of spherically symmetric distributions. (English summary)
**Zuo, Yijun** (*with* Serfling, Robert) General notions of statistical depth function. (English summary) **2001h:62097**

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**Balakrishnan, Narayanaswamy** *see* **Kotz, Samuel et al., 2001h:62001**
**Belili, Nacereddine** (*with* Heinich, Henri) Mass transport problem and derivation. (English summary) **2001a:60016**
**Cheong, Young-Ho** *see* **Provost, Serge B., 2001h:62021**
**(Cooper, Gregory F.)** *see* **Spirtes, Peter et al., 2001j:62009**
**Filus, Jerzy** (*with* Filus, Lidia) A class of generalized multivariate normal densities. (English summary)
**Filus, Lidia** *see* **Filus, Jerzy**
**Garralda Guillem, Ana Isabel** Structure de dépendance des lois de valeurs extrêmes bivariées. (English and French summaries) [Structure of dependence for bivariate extreme value distributions] **2001c:60086**
**Glymour, Clark** *see* **Spirtes, Peter et al., 2001j:62009**
**Graf, Siegfried** (*with* Luschgy, Harald) ★ Foundations of quantization for probability distributions. **2001m:60043**
**(Heckerman, David)** *see* **Spirtes, Peter et al., 2001j:62009**
**Heinich, Henri** *see* **Belili, Nacereddine, 2001a:60016**
**Holcomb, John P., Jr.** Characterization theorems when variables are measured with error. (English summary) **2001d:62068**
**Johnson, Norman Lloyd[2]** *see* **Kotz, Samuel et al., 2001h:62001**
**Kim, Seung-Whan** *see* **Oh, Man-Suk**
**Kotz, Samuel** (*with* Balakrishnan, Narayanaswamy; Johnson, Norman Lloyd[2]) ★ Continuous multivariate distributions. Vol. 1. (English summary) **2001h:62001**
**Kozubowski, Tomasz J.** (*with* Rachev, Svetlozar T.) Multivariate geometric stable laws. (English summary) **2001f:60018**
**Luschgy, Harald** *see* **Graf, Siegfried, 2001m:60043**
**Mathai, A. M.** ★ An introduction to geometrical probability. **2001a:60014**
**(Meek, Christopher)** *see* **Spirtes, Peter et al., 2001j:62009**
**Mikusiński, Piotr** (*with* Taylor, M. D.) A remark on associative copulas. (English summary) **2001c:60021**
**Oh, Man-Suk** (*with* Kim, Seung-Whan) Monte Carlo estimation of multivariate normal probabilities. (English summary)
**Panaretos, J.** *see* **Psarakis, S.**
**Provost, Serge B.** (*with* Cheong, Young-Ho) On the distribution of linear combinations of the components of a Dirichlet random vector. (English and French summaries) **2001h:62021**
**Psarakis, S.** (*with* Panaretos, J.) On some bivariate extensions of the folded normal and folded $T$ distributions. (English summary)
**Rachev, Svetlozar T.** *see* **Kozubowski, Tomasz J., 2001f:60018**
**(Richardson, Thomas S.)** *see* **Spirtes, Peter et al., 2001j:62009**
**Scheines, Richard** *see* **Spirtes, Peter et al., 2001j:62009**
**Song, Peter Xue-Kun** Multivariate dispersion models generated from Gaussian copula. (English summary) **2001d:62013**
**Spirtes, Peter** (*with* Glymour, Clark; Scheines, Richard) ★ Causation, prediction, and search. (English summary) **2001j:62009**
**Sunoj, S. M.** (*with* Unnikrishnan Nair, N.) Bivariate distributions with weighted marginals and reliability modelling. (English and Italian summaries)
**Tarpey, Thaddeus** Parallel principal axes. (English summary) **2001m:62075**
**Taylor, M. D.** *see* **Mikusiński, Piotr, 2001c:60021**
**Unnikrishnan Nair, N.** *see* **Sunoj, S. M.**

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**Lecture Notes in Mathematics** *see* **Graf, Siegfried, 2001m:60043**

### 62H10 Distribution of statistics

**Anderson, T. W.** Asymptotic distribution of the reduced rank regression estimator under general conditions. (English summary) **2001a:62069**
**Fang, Kai-Tai** (*with* Kollo, Tõnu; Parring, Anne-Mai) Approximation of the non-null distribution of generalized $T^2$-statistics. (English summary) **2001j:62069**
**Gao, Hongsheng** (*with* Smith, Peter Jeffry) A determinant representation for the distribution of quadratic forms in complex normal vectors. (English summary) **2001d:62054**
— *see also* **Smith, Peter Jeffry, 2001f:62034**

**Ghazal, Ghazal A.** (*with* Neudecker, Heinz) On second-order and fourth-order moments of jointly distributed random matrices: a survey. (English summary) **2001i:62068**
**Gupta, Arjun K.** (*with* Kabe, D. G.) Distributions of Hotelling's $T^2$ and multiple and partial correlation coefficients for the mixture of two multivariate Gaussian populations. (English summary)
— (*with* Nagar, Daya K.) ★ Matrix variate distributions. **2001d:62055**
— (*with* Nagar, Daya K.) Matrix-variate beta distribution. (English summary)
— (*with* Kabe, D. G.) On Mallows' $C_p$ for the Gmanova model under double linear restrictions on the regression parameter matrix. (English summary)
— (*with* Kabe, D. G.) Elliptically contoured model and factorization of Wilks' Λ: noncentral case. (English summary)
**Harville, David A.** Simple derivations for two Jacobians of basic importance in multivariate statistics. (English summary) **2001k:62069**
**Kabe, D. G.** *see* **Gupta, Arjun K.**
**Kedem, Benjamin** *see* **Ni, Zhongren, 2001d:62056**
**Kochetkov, E. S.** On a transformation of a normally distributed random vector. (Russian. Russian summary)
**Kollo, Tõnu** (*with* von Rosen, Dietrich) Distribution and density approximation of the covariance matrix in the growth curve model. (English summary) **2001k:62070**
— *see also* **Fang, Kai-Tai et al., 2001j:62069**
**Nagar, Daya K.** *see* **Gupta, Arjun K., 2001d:62055**
**Neudecker, Heinz** *see* **Ghazal, Ghazal A., 2001i:62068**
**Ni, Zhongren** (*with* Kedem, Benjamin) On normal orthant probabilities. (English and Chinese summaries) **2001d:62056**
**Parring, Anne-Mai** *see* **Fang, Kai-Tai et al., 2001j:62069**
**Radhakrishnan, Ramaswamy** (*with* Robinson, Don R.) An alternative proof for the derivation of the joint distribution of a set of linear functions of correlated normal random variables. (English summary)
**Robinson, Don R.** *see* **Radhakrishnan, Ramaswamy**
**von Rosen, Dietrich** *see* **Kollo, Tõnu, 2001k:62070**
**Seginer, Yoav** The expected norm of random matrices. (English summary) **2001a:62070**
**Smith, Peter Jeffry** (*with* Gao, Hongsheng) A determinant representation for the distribution of a generalised quadratic form in complex normal vectors. (English summary) **2001f:62034**
— *see also* **Gao, Hongsheng, 2001d:62054**
**Stefanov, Valeri T.** On run statistics for binary trials. (English summary) **2001d:62057**

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**Anderson, T. W.** Asymptotic theory for canonical correlation analysis. (English summary) **2001h:62101**
**Andreoni, Solange** A step-down procedure for analysis of time-varying covariates in multi-visit studies. (English summary) **2001h:62184**
**Baksalary, Jerzy K.** (*with* Baksalary, Oskar Maria) Idempotency of linear combinations of two idempotent matrices. (English summary) **2001m:15056**
**Baksalary, Oskar Maria** *see* **Baksalary, Jerzy K., 2001m:15056**
**Balakrishnan, Narayanaswamy** *see* **Kotz, Samuel et al., 2001h:62001**
**Brunner, Edgar** (*with* Munzel, Ullrich; Puri, Madan L.) Rank-score tests in factorial designs with repeated measures. (English summary) **2001c:62063**
**Chang, Wan-Ying** (*with* Richards, Donald St. P.) Variance inequalities for functions of multivariate random variables. (English summary) **2001c:60033**
**Dupuis, Debbie J.** (*with* Hamilton, David C.) Regression residuals and test statistics: assessing naive outlier deletion. (English and French summaries) **2001e:62062**
**Fujikoshi, Yasunori** Transformations with improved chi-squared approximations. (English summary) **2001h:62024**
**Girko, V. L.** Random block matrix density and *SS*-law. (English summary) **2001e:60073**
— Twenty five years of stochastic canonical equation for normalized spectral functions of random symmetric matrices. (English summary) **2001m:60080**
— Stochastic canonical equation for normalized spectral functions of random Gram matrices. (English summary) **2001m:60081**
**Gupta, Arjun K.** (*with* Kabe, D. G.) On testing equality of $K$ multiple correlation matrices. (English summary) **2001k:62073**
— *see also* **Rempala, Grzegorz, 2001m:60052**
**de Haan, Laurens** (*with* Sinha, Ashoke Kumar) Estimating the probability of a rare event. (English summary) **2001a:62060**
**Hamilton, David C.** *see* **Dupuis, Debbie J., 2001e:62062**
**Hashiguchi, Hiroki** (*with* Nakagawa, Shigekazu; Niki, Naoto) Simplification of the Laplace-Beltrami operator. (English summary) **2001f:35093**
**Johnson, Norman Lloyd**[3] *see* **Kotz, Samuel et al., 2001h:62001**
**Kabe, D. G.** *see* **Gupta, Arjun K., 2001k:62073**
**Kano, Yutaka**[1] Delta method approach in a certain irregular condition. (English summary) **2001b:62013**
**Kotz, Samuel** (*with* Balakrishnan, Narayanaswamy; Johnson, Norman Lloyd[2]) ★ Continuous multivariate distributions. Vol. 1. (English summary) **2001h:62001**
**Kuriki, Satoshi** (*with* Takemura, Akimichi) Some geometry of the cone of nonnegative definite matrices and weights of associated $\overline{\chi}^2$ distribution. (English summary) **2001d:62060**
**Läuter, Jürgen** Correction to: "Exact $t$ and $F$ test for analyzing studies with multiple endpoints" [Biometrics **52** (1996), no. 3, 964–970; MR 98b:62193]. **2001g:62060**
**Mathai, A. M.** Distributions of random simplices through Jacobians of matrix transformations. (English summary) **2001m:60023**
**Milasevic, Philip** (*with* Nolan, Deborah) Modes, caps and concentration: a geometric approach to estimation on the sphere. (English summary)
**Munzel, Ullrich** *see* **Brunner, Edgar et al., 2001c:62063**
**Nakagawa, Shigekazu** *see* **Hashiguchi, Hiroki et al., 2001f:35093**
**Nielsen, Jørgen** The distribution of volume reductions induced by isotropic random projections. (English summary) **2001b:60019**
**Niki, Naoto** *see* **Hashiguchi, Hiroki et al., 2001f:35093**
**Nolan, Deborah** *see* **Milasevic, Philip**
**Puri, Madan L.** *see* **Brunner, Edgar et al., 2001c:62063**
**Rempala, Grzegorz** (*with* Gupta, Arjun K.) Some extensions of Girko's limit theorems for permanents of random matrices. (English summary) **2001m:60052**
**Richards, Donald St. P.** *see* **Chang, Wan-Ying, 2001c:60033**
**Roverato, Alberto** Cholesky decomposition of a hyper inverse Wishart matrix. (English summary) **2001c:65012**
**Shen, Jianhong** On the singular values of Gaussian random matrices. (English summary) **2001m:60082**
**Sinha, Ashoke Kumar** *see* **de Haan, Laurens, 2001a:62060**
**Takemura, Akimichi** *see* **Kuriki, Satoshi, 2001d:62060**
**Yeh, Hsiao Chên** Two multivariate Pareto distributions and their related inferences. (English summary) **2001b:62049**

## 62H11 Directional data; spatial statistics

**Anderson-Cook, Christine M.** A second order model for cylindrical data. (English summary)
**Artes, Rinaldo** (*with* Paula, Gilberto A.; Ranvaud, Ronald) Analysis of circular longitudinal data based on generalized estimating equations. (English summary) **2001h:62098**
**Chang, Ted** *see* **Hanna, Martin S.**
**Chikuse, Yasuko** Procrustes analysis on some special manifolds. (English summary) **2001b:62047**
**Coelho, Carlos A.** On two asymptotic normal distributions for the generalized Wilks lambda statistic. (English summary) **2001h:62099**
**Hanna, Martin S.** (*with* Chang, Ted) Fitting smooth histories to rotation data. (English summary)
**Pal, Chandranath** *see* **SenGupta, Ashis**
**Paula, Gilberto A.** *see* **Artes, Rinaldo et al., 2001h:62098**
**Pewsey, Arthur** The wrapped skew-normal distribution on the circle. (English summary)
**Ranvaud, Ronald** *see* **Artes, Rinaldo et al., 2001h:62098**
**SenGupta, Ashis** (*with* Pal, Chandranath) On optimal tests for isotropy against the symmetric wrapped stable-circular uniform mixture family. (English summary)

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**Alonso, F. J.** *see* **Bueso, M. C. et al., 2001d:62098**
**Angulo, J. M.** *see* **Bueso, M. C. et al., 2001d:62098**
**Artes, Rinaldo** (*with* Jørgensen, Bent) Longitudinal data estimating equations for dispersion models. (English summary) **2001c:62078**
**Bueso, M. C.** (*with* Angulo, J. M.; Qian, Guo Qi; Alonso, F. J.) Spatial sampling design based on stochastic complexity. (English summary) **2001d:62098**
**Cressie, Noel** *see* **Wikle, Christopher K., 2001f:62061**
**Jammalamadaka, S. Rao** *see* **Lund, Ulric**
**Jørgensen, Bent** (*with* Lauritzen, Steffen L.) Multivariate dispersion models. (English summary) **2001k:62068**
— *see also* **Artes, Rinaldo, 2001c:62078**
**Kim, Peter T.** (*with* Koo, Ja-Yong) Directional mixture models and optimal estimation of the mixing density. (English and French summaries) **2001k:62052**
**Klemelä, Jussi** Estimation of densities and derivatives of densities with directional data. (English summary) **2001b:62032**
**Koo, Ja-Yong** *see* **Kim, Peter T., 2001k:62052**
**Lauritzen, Steffen L.** *see* **Jørgensen, Bent, 2001k:62068**
**Leite, José Galvão** *see* **Rodrigues, Josemar et al., 2001i:62003**
**Lund, Ulric** (*with* Jammalamadaka, S. Rao) An entropy-based test for goodness of fit on the von Mises distribution. (English summary)
**Ma, Li** *see* **Wang, Xiao Ming**[3]
**Meerschaert, Mark M.** (*with* Scheffler, Hans-Peter) Moment estimator for random vectors with heavy tails. (English summary) **2001a:62029**
**Milan, Luis A.** *see* **Rodrigues, Josemar et al., 2001i:62003**
**Milasevic, Philip** (*with* Nolan, Deborah) Modes, caps and concentration: a geometric approach to estimation on the sphere. (English summary)
**Nolan, Deborah** *see* **Milasevic, Philip**
**Qian, Guo Qi** *see* **Bueso, M. C. et al., 2001d:62098**
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## 62H12 Estimation

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**Fujikoshi, Yasunori** Error bounds for asymptotic approximations of the linear discriminant function when the sample sizes and dimensionality are large. (English summary) **2001d:62058**
**Fujioka, Teruo** (*with* Yanagimoto, Takemi) Constructing estimators of a mean vector through orthogonal reparametrization and differential equations. (English summary) **2001j:62072**
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**Sackrowitz, Harold B.** *see* **Cohen, Arthur et al., 2001j:62070**
**Serdobol'skiĭ, V. I.** Theory of essentially multivariate statistical analysis. (Russian) **2001m:62073**
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**Brunner, Edgar** *see* **Munzel, Ullrich, 2001d:62035**
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**Liu, Regina Y.** *see* **Fraiman, Ricardo et al.**
**López-Blázquez, Fernando** Unbiased estimation in the non-central chi-square distribution. (English summary) **2001i:62024**
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**Shieh, Gwowen** (*with* Ghosh, Malay) On the minimaxity and Γ-minimaxity of empirical Bayes estimators under matrix squared error loss. (English summary) **2001h:62014**
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**Tsou, Tsung-Shan** Exchangeable cluster binary data correlation coefficient estimation with generalized estimating equations. (English summary)
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**Yang, Guo Qing** Admissible linear estimation in a multivariate linear model with an incomplete ellipsoidal restriction. (Chinese. English and Chinese summaries)
**You, Jin Hong** Two-stage sampling estimators in the GMANOVA-MANOVA model. (Chinese. English and Chinese summaries)
**Zhang, Bao Xue** (*with* Zhu, Xian-Hai) Gauss-Markov and weighted least-squares estimation under a general growth curve model. (English summary) **2001j:62088**
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## 62H15 Hypothesis testing

**Bischoff, Wolfgang** Asymptotically optimal tests for some growth curve models under non-normal error structure. (English summary) **2001a:62073**
**Cardeño, Liliam** (*with* Nagar, Daya K.) Testing block sphericity of a covariance matrix. (English and Spanish summaries)
**Celant, Giorgio** (*with* Pesarin, Fortunato; Salmaso, Luigi) Some comparisons between a parametric and a nonparametric solution for tests with repeated measures. (English and Italian summaries)
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**Chistyakov, V. P.** *see* **Selivanov, B. I., 2001f:62037**
**Cui, Heng Jian** (*with* Chen, Guang Lei) Skewness and kurtosis statistics for testing normality in an error-in-variable model. (Chinese. English and Chinese summaries)
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**Folkers, Martin** *see* **Gutjahr, Steffen et al., 2001k:62074**
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**Gupta, Arjun K.** (*with* Kabe, D. G.) On testing equality of $K$ multiple correlation matrices. (English summary) **2001k:62073**
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**Henze, Norbert** (*with* Penrose, Mathew D.) On the multivariate runs test. (English summary) **2001g:62036**
— *see also* **Gutjahr, Steffen et al., 2001k:62074**
**Ji, Xiaoming** *see* **Zhang, Xiaoning et al.**
**Jiang, Guoyong** (*with* Sarkar, Sanat K.) The likelihood ratio test for the homogeneity of the variances in a covariance matrix with block compound symmetry. (English summary) (*see* **2001a:62004**)
**Jing, Ping** (*with* Gao, Yun Liang) Testing for the homogeneity of covariance matrices. (Chinese. English and Chinese summaries)
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**Kuriki, Satoshi** (*with* Takemura, Akimichi) Some geometry of the cone of nonnegative definite matrices and weights of associated $\overline{\chi}^2$ distribution. (English summary) **2001d:62060**
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**Liu, Hui Mei** Uniformly more powerful, two-sided tests for hypotheses about linear inequalities. (English summary)
**Minami, Mihoko** (*with* Shimizu, Kunio; Mishra, Satya Narayan) ML and REML estimation of Matusita's measure for two bivariate normal distributions with missing observations. (English summary) (*see* **2001e:00025**)
**Mishra, Satya Narayan** *see* **Minami, Mihoko et al., (2001e:00025)**
**Mudholkar, Govind S.** (*with* Srivastava, Deo Kumar) Robust analogs of Hotelling's two-sample $T^2$. (English summary)
**Nagar, Daya K.** *see* **Cardeño, Liliam**
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**Rathie, Pushpa Narayan** The distribution of a LRC for testing $H:\Sigma = I$ in multinormal complex case. (English summary)
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**Schmolck, Björn** ★ Omitted variable tests and dynamic specification. (English summary) **2001h:62100**
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**Sugiura, Nariaki** (*with* Takaoka, Naoko) Homogeneity of variances in normal linear regression with a change point. (English summary) **2001a:62074**
**Takaoka, Naoko** *see* **Sugiura, Nariaki, 2001a:62074**
**Takemura, Akimichi** *see* **Kuriki, Satoshi, 2001d:62060**
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**Andreoni, Solange** A step-down procedure for analysis of time-varying covariates in multi-visit studies. (English summary) **2001h:62184**
**Bapat, Ravindra B.** ★ Linear algebra and linear models. (English summary) **2001a:62082**
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**Chen, Gemai** *see* **Cheng, Ping[1], 2001e:62042**
**Chen, Jie[3]** (*with* Gupta, Arjun K.) ★ Parametric statistical change point analysis. (English summary) **2001g:62001**
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**Cohen, Arthur** (*with* Kemperman, Johannes H. B.; Sackrowitz, Harold B.) Properties of likelihood inference for order restricted models. (English summary) **2001j:62070**
**Giani, G.** (*with* Strassburger, K.) Multiple comparison procedures for optimally discriminating between good, equivalent, and bad treatments with respect to a control. (English summary) **2001e:62019**
**Giudici, Paolo** (*with* Green, Peter J.) Decomposable graphical Gaussian model determination. (English summary) **2001g:62019**
**Glimm, Ekkehard** Spherical tests in balanced multivariate mixed models. (English summary)
**Grala, Jolanta** (*with* Katulska, Krystyna) The likelihood ratio test in the model of the completely randomized block design with Student's $t$ error. (English summary)
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**Pardo, Leandro** (*with* Zografos, K.) Goodness of fit tests with misclassified data based on $\varphi$-divergences. (English summary)
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**Sackrowitz, Harold B.** *see* **Cohen, Arthur et al., 2001j:62070**
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**Serdobol'skiĭ, V. I.** Theory of essentially multivariate statistical analysis. (Russian) **2001m:62073**
**Srivastava, Muni Shanker** *see* **Seo, Takashi**
**Strassburger, K.** *see* **Giani, G., 2001e:62019**
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**Yokoyama, Takahisa** Non-null distributions of the Wald's criteria in random effects growth curve models. (English summary) **2001j:62019**
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## 62H17 Contingency tables

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**Birch, Jeffrey B.** *see* **Nottingham, Quinton J. et al.**
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**Hu, Guo Rong** *see* **Gao, Wei[1] et al.**
**Kim, Sung-Ho** Hyper-EM for large recursive models of categorical variables. (English summary) **2001e:62054**
— *see also* **Fienberg, Stephen E., 2001e:62053**
**Kowalczyk, Teresa** On decomposition of $m \times m$ statistical tables based on grade dependence measures. (English summary)
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**Madigan, David** (*with* Mosurski, Krzysztof) Errata: "An extension of the results of Asmussen and Edwards on collapsibility in contingency tables" [Biometrika **77** (1990), no. 2, 315–319; MR 91i:62075]. **2001e:62055**
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**Szczęsny, Wiesław** Detecting rows and columns of contingency table, which outlie from a total positivity pattern. (English summary)
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**Tsou, Tsung-Shan** Exchangeable cluster binary data correlation coefficient estimation with generalized estimating equations. (English summary)
**Tunaru, Radu** Hypothesis tests for contingency tables based on information energy concepts. (English summary)
**Upton, Graham J. G.** Conditional independence, the Mantel-Haenszel test, and the Yates correction. (English summary)
**Xie, Yu[2]** *see* **Powers, Daniel A., 2001d:62062**
**Yanagawa, Takashi** *see* **Tri Astuti, Erni**
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**Baccini, A.** (*with* Fekri, Mohammed; Fine, Jeanne) Generalized least squares estimation in contingency tables analysis: asymptotic properties and applications. (English summary) **2001j:62024**
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**Chen, Ming-Hui** (*with* Shao, Qi-Man) Properties of prior and posterior distributions for multivariate categorical response data models. (English summary) **2001h:62039**
— (*with* Ibrahim, Joseph G.) Bayesian predictive inference for time series count data. (English and French summaries)
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**Gastwirth, Joseph L.** *see* **Bura, Efstathia, 2001m:62077**
**Greenhill, Catherine** *see* **Dyer, Martin E., 2001i:68167**
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**Ibrahim, Joseph G.** *see* **Chen, Ming-Hui**
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**Pinheiro, Hildete Prisco** (*with* Seillier-Moiseiwitsch, Françoise; Sen, Pranab Kumar[1]; Eron, Joseph, Jr.) Genomic sequences and quasi-multivariate CATANOVA. (*see* **2001c:62002**)
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**Requena, F.** (*with* Ciudad, N. Martin) Characterization of maximum probability points in the multivariate hypergeometric distribution. (English summary) **2001j:62068**
**Robins, James M.** *see* **Breslow, Norman E. et al., 2001c:62053**
**Rosenbaum, Paul R.** Effects attributable to treatment: inference in experiments and observational studies with a discrete pivot. (English summary)
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**Yanagawa, Takashi** *see* **Zhang, Zhong-Zhan et al.**
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## 62H20 Measures of association (correlation, canonical correlation, etc.)

**Anderson, T. W.** Asymptotic theory for canonical correlation analysis. (English summary) **2001h:62101**
**Bentler, Peter M.** *see* **Yuan, Ke-Hai, 2001c:62073**
**Fung, Wing-Kam** *see* **Gu, Hong[1]**
**Gao, Dao De** (*with* Huang, Rong-Bing) Some results on canonical correlation and their applications to a linear model. (English summary) **2001j:62074**
**Gu, Hong[1]** (*with* Fung, Wing-Kam) Influence diagnostics in the common canonical variates model. (English summary)
**Huang, Rong-Bing** *see* **Gao, Dao De, 2001j:62074**
**Kowalczyk, Teresa** (*with* Niewiadomska-Bugaj, M.) Decomposition of Kendall's $\tau$: implications for clustering. (English summary) **2001b:62050**
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**Lerman, Israël-César** (*with* Rouxel, F.) Comparing classification tree structures: a special case of comparing $q$-ary relations. II. (English summary) **2001i:62073**
**Miyakawa, Masami** *see* **Kuroki, Manabu, 2001a:62076**
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**Pemantle, Robin** Towards a theory of negative dependence. (English summary) **2001g:62039**
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**Averous, Jean** (*with* Dortet-Bernadet, Jean-Luc) LTD and RTI dependence orderings. (English and French summaries) **2001e:62050**
**Baek, Jong-Il** (*with* Kim, Tae-Sung; Lim, Jae-Hak) On the dependence structure of stochastic processes and corresponding hitting times. (English summary) **2001j:60082**
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**Carriere, Jacques F.** Bivariate survival models for coupled lives. (English summary)

**Doksum, Kjell A.** (*with* Froda, Sorana M.) Neighborhood correlation. (English summary) **2001m:62054**
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**Froda, Sorana M.** *see* **Doksum, Kjell A., 2001m:62054**
**García-Escudero, Luis A.** (*with* Gordaliza, Alfonso; Matrán, Carlos) A central limit theorem for multivariate generalized trimmed $k$-means. (English summary) **2001a:60026**
**Gordaliza, Alfonso** *see* **García-Escudero, Luis A. et al., 2001a:60026**
**Iachine, Ivan A.** *see* **Yashin, A. I., 2001g:62056**
**Kim, Tae-Sung** *see* **Baek, Jong-Il et al., 2001j:60082**
**Kozubowski, Tomasz J.** (*with* Rachev, Svetlozar T.) Multivariate geometric stable laws. (English summary) **2001f:60018**
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**Müller, Alfred[2]** (*with* Scarsini, Marco) Some remarks on the supermodular order. (English summary) **2001h:60030**
**O'Quigley, John** *see* **Xu, Ronghui, 2001c:62112**
**Ostrovska, Sofia I.** Measures of independence of two random variables based on their moments. (English and Turkish summaries)
**Perlman, Michael D.** *see* **Andersson, Steen A. et al., 2001h:62094** *and* **Wu, Lang, 2001j:62073**
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**Richardson, Thomas S.** *see* **Andersson, Steen A. et al., 2001h:62094**
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**Stępniak, Czesław** On a matrix result in comparison of linear experiments. (English summary) **2001k:62082**
**Tuncer, Yalçın** (*with* Arslan, Fahrettin; Yılmaz, M.) Some comments on concentration and expansion functions as applied to bivariate dependence. (English summary)
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**Yashin, A. I.** (*with* Iachine, Ivan A.) Dependent hazards in multivariate survival problems. (English summary) **2001g:62056**
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## 62H25 Factor analysis and principal components; correspondence analysis

**Aguilera Del Pino, Ana Ma.** *see* **Ocaña Lara, Francisco A. et al., 2001g:62040**
**Aluja-Banet, Tomàs** *see* **Nonell, Ramon et al.**
**Bartholomew, D. J.** (*with* Knott, Martin) ★ Latent variable models and factor analysis. (English summary) **2001f:62038**
**Bentler, Peter M.** *see* **Hayashi, Kentaro, 2001b:62051** *and* **2001j:62076**
**ten Berge, Jos M. F.** The typical rank of tall three-way arrays. (English summary)
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— (*with* Lahlou, Younes) Some orthogonal expansions for the logistic distribution. (English summary) **2001j:62075**
**Fortiana, Josep** *see* **Cuadras, Carles M.**
**Girard, Stéphane** A nonlinear PCA based on manifold approximation. (English summary)
**Guo, Fu Xing** *see* **Guo, Jun Liang**
**Guo, Jun Liang** (*with* Guo, Fu Xing) Determining principal components by derived characteristic roots. (Chinese. English and Chinese summaries)
**Haagen, K.** (*with* Oberhofer, W.) The replicated common factor-analysis model. (English and Italian summaries)
**Haesbroeck, Gentiane** *see* **Croux, Christophe, 2001e:62056**
**Hastie, Trevor J.** *see* **James, Gareth M. et al., 2001h:62103**
**Hayashi, Kentaro** (*with* Bentler, Peter M.) The asymptotic covariance matrix of maximum-likelihood estimates in factor analysis: the case of nearly singular matrix of estimates of unique variances. (English summary) **2001j:62076**
— (*with* Bentler, Peter M.) On the relations among regular, equal unique variances, and image factor analysis models. (English summary) **2001b:62051**
**James, Gareth M.** (*with* Hastie, Trevor J.; Sugar, Catherine A.) Principal component models for sparse functional data. (English summary) **2001h:62103**
**Kim, Hea-Jung** A Bayes rule for determining the number of common factors in oblique factor model. (English summary)
**Kim, Myung Geun** Multivariate outliers and decompositions of Mahalanobis distance. (English summary) **2001h:62104**
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**Lee, Sik-Yum** (*with* Shi, Jian-Qing) Joint Bayesian analysis of factor scores and structural parameters in the factor analysis model. (English summary)
**Lynn, Henry S.** (*with* McCulloch, Charles E.) Using principal component analysis and correspondence analysis for estimation in latent variable models. (English summary)
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**Nonell, Ramon** (*with* Thió-Henestrosa, Santiago; Aluja-Banet, Tomàs) Some alternatives for conditional principal component analysis. (English summary)
**Oberhofer, W.** *see* **Haagen, K.**
**Ocaña Lara, Francisco A.** (*with* Aguilera Del Pino, Ana Ma.; Valderrama Bonnet, Mariano J.) Functional principal components analysis by choice of norm. (English summary) **2001g:62040**
**Ogasawara, Haruhiko** Errata for: "Some relationships between factors and components" [Psychometrika **65** (2000), no. 2, 167–185; 1763518]. (English summary)
**Politi, Tiziano** (*with* Trendafilov, Nickolay T.) On the fitting problem in factor analysis. (English summary)
**Preda, Cristian** Approximation par moyennage de l'analyse en composantes principales d'un processus stochastique. (English and French summaries) [Time-average approximation of the principal component analysis of a stochastic process] **2001b:62052**
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**Sugar, Catherine A.** *see* **James, Gareth M. et al., 2001h:62103**
**Tarpey, Thaddeus** Parallel principal axes. (English summary) **2001m:62075**
**Thió-Henestrosa, Santiago** *see* **Nonell, Ramon et al.**
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**Valpola, Harri** Bayesian ensemble learning for nonlinear factor analysis. (English summary)

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**Boente, Graciela** (*with* Fraiman, Ricardo) Kernel-based functional principal components. (English summary) **2001c:62052**
**Cardot, Hervé** Nonparametric estimation of smoothed principal components analysis of sampled noisy functions. (English summary) **2001e:62037**
**Christophersen, Nils** *see* **Lingjærde, Ole C., 2001h:62118**
**Fraiman, Ricardo** *see* **Boente, Graciela, 2001c:62052**
**Lapidus, Jodi** *see* **Bedrick, Edward J. et al.**
**Lin, Xihong** *see* **Roy, Jason**
**Lingjærde, Ole C.** (*with* Christophersen, Nils) Shrinkage structure of partial least squares. (English summary) **2001h:62118**
**Powell, Joseph F.** *see* **Bedrick, Edward J. et al.**
**Roy, Jason** (*with* Lin, Xihong) Latent variable models for longitudinal data with multiple continuous outcomes. (English and French summaries)
**Shapiro, Alexander** (*with* ten Berge, Jos M. F.) The asymptotic bias of minimum trace factor analysis, with applications to the greatest lower bound to reliability. (English summary)
**Xu, Lei[1]** BYY learning system and theory for parameter estimation, data smoothing based regularization and model selection. (English summary) **2001k:68119**

## 62H30 Classification and discrimination; cluster analysis [see also 68T10]

**Arabie, Phipps** *see* **Hubert, Lawrence et al.**
**Bedrick, Edward J.** (*with* Lapidus, Jodi; Powell, Joseph F.) Estimating the Mahalanobis distance from mixed continuous and discrete data. (English and French summaries)
**Carroll, J. Douglas** *see* **Chaturvedi, Anil**
**Chaturvedi, Anil** (*with* Carroll, J. Douglas) An $L_1$-norm procedure for fitting overlapping clustering models to proximity data. (English summary)
**Chen, Jie[3]** *see* **Logan, T. P. et al.**
**Chung, Hie-Choon** (*with* Han, Chien-Pai) Discriminant analysis when a block of observations is missing. (English summary) **2001h:62105**
**Das, M. N.** Classification of observations using distances in oblique axes system. (English and Hindi summaries)
**Dičiūnas, Valdas** (*with* Raudys, Šarūnas) Generalization error of randomized linear zero empirical error classifier: simple asymptotics for centered data case. (English and Lithuanian summaries)
— Generalization error of randomized linear zero empirical error classifier: non-centered data case. (English and Lithuanian summaries)
**Drăguț, Andreea Bogdana** A dynamic programming approach to cluster analysis. An optimal clustering procedure. (English summary) (*see* **2001g:00020**)
— On an optimal clustering procedure.
— On the asymptotic behaviour of the simulated annealing algorithm for classification problems. (English summary)
**El-Hefnawy, Aly** *see* **Selim, Kamal**
**Fung, Wing-Kam** *see* **He, Xuming, 2001a:62077**
**Gupta, Arjun K.** *see* **Logan, T. P. et al.**
**Han, Chien-Pai** *see* **Chung, Hie-Choon, 2001h:62105**
**Hastie, Trevor J.** *see* **Tibshirani, Robert et al.**
**He, Xuming** (*with* Fung, Wing-Kam) High breakdown estimation for multiple populations with applications to discriminant analysis. (English summary) **2001a:62077**
**Hubert, Lawrence** (*with* Arabie, Phipps; Meulman, Jacqueline) ★ Combinatorial data analysis. (English summary)
**Jhun, Myoungshic** (*with* Jin, Seohoon) On a modified $k$-spatial medians clustering. (English summary)
**Jin, Seohoon** *see* **Jhun, Myoungshic**
**Kamimura, Hideki** (*with* Kurano, Masami) Clustering by a fuzzy metric: applications to the cluster-median problem. (English summary) **2001h:62106**
**Kamiya, Hidehiko** (*with* Takemura, Akimichi) Rankings generated by spherical discriminant analysis. (English summary)
**Krzyśko, Mirosław** Linear discriminant functions which maximize the area under the ROC curve. (English summary) **2001d:62063**
**Kurano, Masami** *see* **Kamimura, Hideki, 2001h:62106**
**Lapidus, Jodi** *see* **Bedrick, Edward J. et al.**
**Lee, Michael D.** On the complexity of additive clustering models. (English summary)
**Leung, Chi-Ying** Error rates in classification consisting of discrete and continuous variables in the presence of covariates. (English summary)
**Lewbel, Arthur** Identification of the binary choice model with misclassification. (English summary)

**Lloyd, Chris J.** Maximum likelihood estimation of misclassification rates of a binomial regression. (English summary) **2001e:62057**

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**Mammen, Enno** (*with* Tsybakov, A. B.) Smooth discrimination analysis. (English summary) **2001i:62074**

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**Mirkin, Boris** $L_1$ and $L_2$ approximation clustering for mixed data: scatter decompositions and algorithms. (English summary)

**Pavlov, D. A.** (*with* Serykh, A. P.) A modified classification algorithm of the $k$-nearest neighbor type. (Russian. English and Russian summaries) **2001j:62077**

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**Raudys, Šarūnas** *see* **Dičiūnas, Valdas**

**Selim, Kamal** (*with* El-Hefnawy, Aly) Survey of mathematical programming models to two groups discriminant analysis. (English summary)

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**Streit, Franz** Recognition of the type of figures by methods of statistical identification. (English summary) (*see* **2001h:00022**)

**Takemura, Akimichi** *see* **Kamiya, Hidehiko**

**Tibshirani, Robert** (*with* Walther, Günther; Hastie, Trevor J.) Estimating the number of clusters in a data set via the gap statistic. (English summary)

**Tsybakov, A. B.** *see* **Mammen, Enno, 2001i:62074**

**Walther, Günther** *see* **Tibshirani, Robert et al.**

**Yang, Yuhong** Adaptive estimation in pattern recognition by combining different procedures. (English summary) **2001j:62078**

**Zhang, Wen Xiu** *see* **Mei, Chang Lin**

**Zhuk, E. E.** Robust cluster analysis of discrete multidimensional observations. (Russian. Russian summary) **2001i:62075**

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**Bradley, P. S.** (*with* Mangasarian, Olvi L.) $k$-plane clustering. (English summary) **2001g:90095**

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**Coomans, D. H.** *see* **Aeberhard, S. et al., 2001h:65171**

**Cuadras, Carles M.** (*with* Fortiana, Josep) The importance of geometry in multivariate analysis and some applications. (English summary)

**Demin, N. S.** (*with* Rozhkova, Svetlana; Rozhkova, O. V.) Likelihood ratio determination for stochastic processes recognition problem with respect to the set of continuous and discrete memory observations. (English and Lithuanian summaries)

**De Vel, O. Y.** *see* **Aeberhard, S. et al., 2001h:65171**

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## 62H35 Image analysis

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**Clyde, Merlise** *see* **Dominici, Francesca et al., 2001i:62076**
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**Robins, James M.** Association, causation, and marginal structural models. (*see* **2001a:00009**)
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## 62Jxx Linear inference, regression

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**(Schimek, Michael G.)** *see* **Smoothing and regression, 2001f:62006**

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### 62J02 General nonlinear regression

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**Aerts, Marc** (*with* Claeskens, Gerda; Hart, Jeffrey D.) Testing lack of fit in multiple regression. (English summary) **2001d:62065**
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**González-Manteiga, Wenceslao** *see* **Ramil Novo, L. A., 2001e:62058**

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**Scitovski, Rudolf** *see* **Jukić, Dragan, 2001h:62129**
**Shih, Weichung Joseph** (*with* Quan, Hui) On the composite approach to dropouts in clinical trials. (English summary)
**Simpson, Douglas G.** *see* **Xie, Minge et al.**
**Song, Jae-Kee** *see* **Ha, Il Do et al.**
**Stern, Steven E.** (*with* Welsh, A. H.) Likelihood inference for small variance components. (English and French summaries) **2001m:62083**
**Sun, Dao De** Selection of the linear regression model according to the parameter estimation. (English summary)
**Sun, Dongchu** (*with* Tsutakawa, Robert K.; He, Zhuo Qiong) Propriety of posteriors with improper priors in hierarchical linear mixed models. (English summary)
**Sutradhar, Brajendra C.** (*with* Godambe, V. P.) On estimating function approach in the generalized linear mixed model. (English summary) (*see* **2001m:62003**)
**Tang, Man-Lai** Exact goodness-of-fit test for binary logistic model. (English summary)
**Tanner, Martin A.** *see* **Jiang, Wenxin, 2001a:62090**; **2001a:62091** *and* **Rosen, Ori et al., 2001e:62064**
**Trottier, Catherine** A quasi-score marginal approach in generalized linear mixed models. (English summary)
**Tsai, Chih-Ling** *see* **Naik, Prasad A.**
**Tsutakawa, Robert K.** *see* **Sun, Dongchu et al.**
**Tutz, Gerhard** *see* **Kauermann, Göran, 2001m:62081**
**Wang, Ch'ing Yün** Flexible regression calibration for covariate measurement error with longitudinal surrogate variables. (English summary)
**Wang, Ying[3]** *see* **Davis, Richard Alan et al., 2001h:62126**
**Welsh, A. H.** *see* **Stern, Steven E., 2001m:62083**
**Wiens, Douglas P.** *see* **Fang, Zhide**
**Xie, Minge** (*with* Simpson, Douglas G.; Carroll, Raymond J.) Random effects in censored ordinal regression: latent structure and Bayesian approach. (English and French summaries)
**Zeger, Scott L.** *see* **Heagerty, Patrick J.**
**Zhang, Biao[2]** A goodness of fit test for multiplicative-intercept risk models based on case-control data. (English summary)
**Zhu, Hong-Tu** (*with* Lee, Sik-Yum) Local influence for incomplete-data models. (English summary) **2001m:62084**
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— *see also* **Claeskens, Gerda, 2001f:62028**
**Bartholomew, D. J.** (*with* Knott, Martin) ★ Latent variable models and factor analysis. (English summary) **2001f:62038**
**Biller, Clemens** Adaptive Bayesian regression splines in semiparametric generalized linear models. (English summary)
**Birch, Jeffrey B.** *see* **Nottingham, Quinton J. et al.**
**Bischoff, Wolfgang** Asymptotically optimal tests for some growth curve models under non-normal error structure. (English summary) **2001a:62073**
**Bodt, Barry A.** *see* **Nottingham, Quinton J. et al.**
**Boik, Robert J.** (*with* Todd, Charles; Hyde, Scott K.) Response transformations in repeated measures and growth curve models. (English summary) **2001c:62071**
**Breslow, Norman E.** (*with* Robins, James M.; Wellner, Jon A.) On the semi-parametric efficiency of logistic regression under case-control sampling. (English summary) **2001c:62053**
**Broström, Göran** (*with* Nilsson, Leif) Acceptance-rejection sampling from the conditional distribution of independent discrete random variables, given their sum. (English summary) **2001j:62054**
**Brown, Lawrence D.** (*with* Wong, Weng Kee) An algorithmic construction of optimal minimax designs for heteroscedastic linear models. (English summary) **2001a:62095**
**Carroll, Raymond J.** *see* **McShane, Lisa M. et al.**
**Chang, Yuan-chin Ivan** Sequential confidence regions of generalized linear models with adaptive designs. (English summary)
**Chen, Ming-Hui** (*with* Shao, Qi-Man) Properties of prior and posterior distributions for multivariate categorical response data models. (English summary) **2001h:62039**
— (*with* Ibrahim, Joseph G.; Shao, Qi-Man) Power prior distributions for generalized linear models. (English summary) **2001a:62031**
— (*with* Shao, Qi-Man) Propriety of posterior distribution for dichotomous quantal response models. (English summary) **2001c:62031**
**Chen, Sean X.** General properties and estimation of conditional Bernoulli models. (English summary) **2001i:62064**
**Chiou, Jeng-Min** (*with* Müller, Hans-Georg) Nonparametric quasi-likelihood. (English summary) **2001b:62029**
**Claeskens, Gerda** (*with* Aerts, Marc) On local estimating equations in additive multiparameter models. (English summary) **2001f:62028**
— *see also* **Aerts, Marc et al., 2001d:62065**
**Coppejans, Mark** Estimation of the binary response model using a mixture of distributions estimator (MOD). (English summary)
**Cressie, Noel** (*with* Pardo, Leandro) Minimum $\varphi$-divergence estimator and hierarchical testing in loglinear models. (English summary)
**Dawidowicz, Antoni Leon** *see* **Rembiecha-Czapkiewicz, Anna**
**Dencker, Peter[2]** A limit theorem for empirical processes from planned experiments. (English summary) **2001g:62031**
**Dobra, Adrian** (*with* Fienberg, Stephen E.) Bounds for cell entries in contingency tables given marginal totals and decomposable graphs. (English summary) **2001g:62038**
**Dorgan, Joanne F.** *see* **McShane, Lisa M. et al.**
**van Dyk, David A.** Nesting EM algorithms for computational efficiency. (English summary) **2001k:62028**
**Fahrmeir, Ludwig** (*with* Lang, Stefan[2]) Bayesian semiparametric regression analysis of multicategorical time-space data. (English summary)
**Fan, Jianqing** (*with* Zhang, Wenyang) Statistical estimation in varying coefficient models. (English summary) **2001a:62046**
**Fandom Noubiap, R.** (*with* Seidel, Wilfried) A minimax algorithm for constructing optimal symmetrical balanced designs for a logistic regression model. (English summary) **2001h:62134**
**Fienberg, Stephen E.** *see* **Dobra, Adrian, 2001g:62038**
**Fokianos, Konstantinos** (*with* Peng, Amy; Qin, Jing[1]) Authors' addendum to: "A generalized-moments specification test for the logistic link" [Canad. J. Statist. **27** (1999), no. 4, 735–750; 1767144].
— (*with* Kedem, Benjamin; Qin, Jing[1]; Short, David A.) A semiparametric approach to the one-way layout. (English summary)
**Freedman, Laurence S.** *see* **McShane, Lisa M. et al.**
**Garren, Steven T.** (*with* Peddada, Shyamal D.) Asymptotic normality in multivariate nonlinear regression and multivariate generalized linear regression models under repeated measurements with missing data. (English summary) **2001b:62053**
**Hart, Jeffrey D.** *see* **Aerts, Marc et al., 2001d:62065**
**He, Xuming** (*with* Shao, Qi-Man) On parameters of increasing dimensions. (English summary) **2001g:62016**
**Honoré, Bo E.** (*with* Kyriazidou, Ekaterini) Panel data discrete choice models with lagged dependent variables. (English summary) **2001d:62102**
**Horowitz, Joel L.** (*with* Manski, Charles F.) Nonparametric analysis of randomized experiments with missing covariate and outcome data. (English summary) **2001j:62067**
**Hsieh, Fushing** On heteroscedastic hazards regression models: theory and application. (English summary) **2001m:62116**
**Huang, Jianhua Z.** Concave extended linear modeling: a theoretical synthesis. (English summary) **2001k:62051**
**Hyde, Scott K.** *see* **Boik, Robert J. et al., 2001c:62071**
**Ibrahim, Joseph G.** *see* **Chen, Ming-Hui et al., 2001a:62031**
**Ishwaran, Hemant** (*with* Zarepour, Mahmoud) Markov chain Monte Carlo in approximate Dirichlet and beta two-parameter process hierarchical models. (English summary) **2001e:65011**
**Jiang, Jiming** A nonlinear Gauss-Seidel algorithm for inference about GLMM. (English summary) **2001j:65017**
**Kass, Robert E.** *see* **Natarajan, Ranjini, 2001j:62028**
**Kauermann, Göran** (*with* Tutz, Gerhard) Local likelihood estimation in varying-coefficient models including additive bias correction. (English summary) **2001c:62055**
**Kedem, Benjamin** *see* **Fokianos, Konstantinos et al.**
**Kim, Sung-Ho** Hyper-EM for large recursive models of categorical variables. (English summary) **2001e:62054**
**Knott, Martin** *see* **Bartholomew, D. J., 2001f:62038**
**Kolassa, John E.** Explicit bounds for geometric convergence of Markov chains. (English summary) **2001e:60143**
**Kovacevic, Milorad** *see* **Sutradhar, Brajendra C., 2001k:62015**
**Kyriazidou, Ekaterini** *see* **Honoré, Bo E., 2001d:62102**
**Lang, Stefan[2]** *see* **Fahrmeir, Ludwig**
**Lewbel, Arthur** Identification of the binary choice model with misclassification. (English summary)
**Li, Yi[7]** (*with* Lin, Xihong) Covariate measurement errors in frailty models for clustered survival data. (English summary) **2001m:62117**
**Liang, Kung-Yee** (*with* Zeger, Scott L.) Longitudinal data analysis of continuous and discrete responses for pre-post designs. (English summary) **2001e:62089**
— *see also* **Rathouz, Paul J., 2001c:62028**
**Lin, Xihong** *see* **Li, Yi[7], 2001m:62117** *and* **Roy, Jason**
**Lindkvist, Marie** Properties of added variable plots in Cox's regression model. (English summary) **2001b:62081**
**Liu, Jun S.** (*with* Sabatti, Chiara) Generalised Gibbs sampler and multigrid Monte Carlo for Bayesian computation. (English summary) **2001e:65012**
**López-Fidalgo, J.** (*with* Wong, Weng Kee) A comparative study of MV- and SMV-optimal designs for binary response models. (English summary) (*see* **2001d:62002**)
**Manski, Charles F.** *see* **Horowitz, Joel L., 2001j:62067**
**McShane, Lisa M.** (*with* Midthune, Douglas N.; Dorgan, Joanne F.; Freedman, Laurence S.; Carroll, Raymond J.) Covariate measurement error adjustment for matched case-control studies. (English and French summaries)
**Midthune, Douglas N.** *see* **McShane, Lisa M. et al.**
**Müller, Hans-Georg** *see* **Chiou, Jeng-Min, 2001b:62029**
**Müller, Ursula U.** Nonparametric regression for threshold data. (English and French summaries)
**Natarajan, Ranjini** (*with* Kass, Robert E.) Reference Bayesian methods for generalized linear mixed models. (English summary) **2001j:62028**

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**Nottingham, Quinton J.** (*with* Birch, Jeffrey B.; Bodt, Barry A.) Local logistic regression: an application to army penetration data. (English summary)
**Pardo, Leandro** *see* **Cressie, Noel**
**Peddada, Shyamal D.** *see* **Garren, Steven T., 2001b:62053**
**Peng, Amy** *see* **Fokianos, Konstantinos et al.**
**Powers, Daniel A.** (*with* Xie, Yu[2]) ★ Statistical methods for categorical data analysis. **2001d:62062**
**Qin, Jing[1]** *see* **Fokianos, Konstantinos et al.**
**(Raghunathan, T. E.)** *see* **Horowitz, Joel L., 2001j:62067**
**Rathouz, Paul J.** (*with* Liang, Kung-Yee) Reducing sensitivity to nuisance parameters in semiparametric models: a quasi-score method. (English summary) **2001c:62028**
**Rembiecha-Czapkiewicz, Anna** (*with* Dawidowicz, Antoni Leon) The two-dimensional linear relation in the errors-in-variables model with replication of one variable. (English summary)
**Robins, James M.** *see* **Breslow, Norman E. et al., 2001c:62053**
**Roy, Jason** (*with* Lin, Xihong) Latent variable models for longitudinal data with multiple continuous outcomes. (English and French summaries)
**Sabatti, Chiara** *see* **Liu, Jun S., 2001e:65012**
**Seidel, Wilfried** *see* **Fandom Noubiap, R., 2001h:62134**
**Severini, Thomas A.** *see* **Staniswalis, Joan G., 2001k:62057**
**Shao, Qi-Man** *see* **Chen, Ming-Hui et al., 2001a:62031; 2001c:62031; 2001h:62039** *and* **He, Xuming, 2001g:62016**
**Short, David A.** *see* **Fokianos, Konstantinos et al.**
**Song, Peter Xue-Kun** Multivariate dispersion models generated from Gaussian copula. (English summary) **2001d:62013**
**Staniswalis, Joan G.** (*with* Severini, Thomas A.) Fitting the additive model by recursion on dimension. (English summary) **2001k:62057**
**Sutradhar, Brajendra C.** (*with* Kovacevic, Milorad) Analysing ordinal longitudinal survey data: generalised estimating equations approach. (English summary) **2001k:62015**
**Tang, Nian Sheng** (*with* Wang, Xue-Ren) Confidence regions in quasi-likelihood nonlinear models: a geometric approach. (English and Chinese summaries) **2001b:62024**
— *see also* **Wei, Bo Cheng et al., 2001a:62081**
**Todd, Charles** *see* **Boik, Robert J. et al., 2001c:62071**
**Tsou, Tsung-Shan** Exchangeable cluster binary data correlation coefficient estimation with generalized estimating equations. (English summary)
**Tutz, Gerhard** *see* **Kauermann, Göran, 2001c:62055**
**Wang, Xue-Ren** *see* **Wei, Bo Cheng et al., 2001a:62081** *and* **Tang, Nian Sheng, 2001b:62024**
**Wei, Bo Cheng** (*with* Tang, Nian Sheng; Wang, Xue-Ren) Some asymptotic inference in quasi-likelihood nonlinear models: a geometric approach. (English summary) **2001a:62081**
**Wellner, Jon A.** *see* **Breslow, Norman E. et al., 2001c:62053**
**Wong, Weng Kee** *see* **Brown, Lawrence D., 2001a:62095** *and* **López-Fidalgo, J., (2001d:62002)**
**Xie, Yu[2]** *see* **Powers, Daniel A., 2001d:62062**
**Yang, Yuhong** Adaptive estimation in pattern recognition by combining different procedures. (English summary) **2001j:62078**
**Zanella, Angelo** A stochastic model for the analysis of customer satisfaction: some theoretical aspects. (English and Italian summaries) **2001h:62193**
**Zarepour, Mahmoud** *see* **Ishwaran, Hemant, 2001e:65011**
**Zeger, Scott L.** *see* **Liang, Kung-Yee, 2001e:62089**
**Zhang, Biao[2]** Quantile estimation under a two-sample semi-parametric model. (English summary) **2001b:62044**
— $M$-estimation under a two-sample semiparametric model. (English summary) **2001c:62043**
**Zhang, Wenyang** *see* **Fan, Jianqing, 2001a:62046**

## 62J15 Paired and multiple comparisons

**Finner, H.** Stepwise multiple test procedures and control of directional errors. (English summary) **2001c:62079**
**Hirotsu, Chihiro** (*with* Srivastava, Muni Shanker) Simultaneous confidence intervals based on one-sided max $t$ test. (English summary) **2001e:62065**
**Hothorn, Ludwig A.** *see* **Koch, Hans-Friedrich, 2001a:62092**
**Klukowski, Leszek** The nearest adjoining order method for pairwise comparisons in the form of difference of ranks. (English summary) (*see* **2001h:91006**)
**Koch, Hans-Friedrich** (*with* Hothorn, Ludwig A.) Exact unconditional distributions for dichotomous data in many-to-one comparisons. (English summary) **2001a:62092**
**Oehlert, Gary W.** Correction to: "Student-Newman-Kuels controls the false discovery rate" [Statist. Probab. Lett. **46** (2000), no. 4, 381–383; 1 743 996].
**Roth, Arthur J.** Multiple comparison procedures for discrete test statistics. (English summary) **2001h:62132**
**Simons, Gordon** (*with* Yao, Yi-Ching) Asymptotics when the number of parameters tends to infinity in the Bradley-Terry model for paired comparisons. (English summary) **2001c:62080**
**Srivastava, Muni Shanker** *see* **Hirotsu, Chihiro, 2001e:62065**
**Ursianu, Emiliana** Designing experiments for two-stage simultaneous statistical inference in linear model. (English summary)
**Yao, Yi-Ching** *see* **Simons, Gordon, 2001c:62080**

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**Bar-Hen, A.** (*with* Kishino, H.) Comparing the likelihood functions of phylogenetic trees. (English summary) **2001k:92031**
**Basak, Indrani** The logit model analysis for the pairwise comparisons in ratio scale. (English summary)
**Fernández, Miguel A.** (*with* Rueda, Cristina; Salvador González, Bonifacio) Parameter estimation under orthant restrictions. (English and French summaries) **2001h:62050**
**Fernández García, M. P.** *see* **Vallejo Seco, G. et al.**
**Fidalgo Aliste, A. M.** *see* **Vallejo Seco, G. et al.**
**Finner, H.** (*with* Roters, M.) On the critical value behaviour of multiple decision procedures. (English summary) **2001h:62027**
**Futschik, Andreas** Subset selection in simulation: the Gupta rule and alternatives. (English summary) **2001i:62019**
**García-Escudero, Juan** *see* **Vallejo Seco, G. et al.**
**Hochberg, Yosef** (*with* Rabinovitch, Ramon) Ranking by pairwise comparisons with special reference to ordering portfolios. (English summary)
**Jaryszak, Eric** *see* **Thompson, Peter et al.**
**Kishino, H.** *see* **Bar-Hen, A., 2001k:92031**
**Kwong, K. S.** (*with* Liu, Wei[4]) Calculation of critical values for Dunnett and Tamhane's step-up multiple test procedure. (English summary)
**Levin, Bruce** (*with* Paik, Myunghee Cho) The unreasonable effectiveness of a biased logistic regression procedure in the analysis of pair-matched case-control studies. (English summary)
**Liu, Wei[4]** *see* **Kwong, K. S.**
**Paik, Myunghee Cho** *see* **Levin, Bruce**
**Rabinovitch, Ramon** *see* **Hochberg, Yosef**
**Roters, M.** *see* **Finner, H., 2001h:62027**
**Rueda, Cristina** *see* **Fernández, Miguel A. et al., 2001h:62050**
**Salvador González, Bonifacio** *see* **Fernández, Miguel A. et al., 2001h:62050**
**Thompson, Peter** (*with* Jaryszak, Eric; Wamil, John) Reducing the pairing effect in 4-team double-elimination tournaments. (English summary)
**Vallejo Seco, G.** (*with* García-Escudero, Juan; Fidalgo Aliste, A. M.; Fernández García, M. P.) Testing of hypotheses in multivariate split-plot designs with arbitrary dispersion matrices. (Spanish. English and Spanish summaries)
**Wamil, John** *see* **Thompson, Peter et al.**

## 62J20 Diagnostics

**Atkinson, Anthony C.** *see* **Riani, Marco**
**Baade, Ingrid A.** (*with* Pettitt, Anthony N.) Multiple and conditional deletion diagnostics for general linear models. (English summary)
**(Cook, R. Dennis)** *see* **Riani, Marco**
**Ellis, Steven P.** Singularity and outliers in linear regression with application to least squares, least absolute deviation, and least median of squares linear regression. (English and Italian summaries)
**Fung, Wing-Kam** *see* **Zong, Xu Ping et al., 2001b:62059**
**Gleser, Leon J.** *see* **Kim, Jonghyeon**
**González-Sierra, Miguel A.** *see* **Suárez-Rancel, M. Mercedes**
**Kim, Jonghyeon** (*with* Gleser, Leon J.) Simex approaches to measurement error in ROC studies. (English summary)
**MacEachern, Steven N.** (*with* Peruggia, Mario) Importance link function estimation for Markov chain Monte Carlo methods. (English summary) **2001k:62087**
**Peruggia, Mario** *see* **MacEachern, Steven N., 2001k:62087**
**Pettitt, Anthony N.** *see* **Baade, Ingrid A.**
**Riani, Marco** (*with* Atkinson, Anthony C.) Robust diagnostic data analysis: transformations in regression. (English summary)
**Suárez-Rancel, M. Mercedes** (*with* González-Sierra, Miguel A.) Local and deletion diagnostic. (English summary)
**Wei, Bo Cheng** (*with* Zong, Xu Ping) Influence analysis in nonlinear models with random effects. (English summary) **2001k:62088**
— *see also* **Zong, Xu Ping et al., 2001b:62059**
**Zong, Xu Ping** (*with* Wei, Bo Cheng; Fung, Wing-Kam) Influence analysis for linear measurement error models. (English summary) **2001b:62059**
— *see also* **Wei, Bo Cheng, 2001k:62088**

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**Bai, Peng** *see* **Fei, Yu et al.**
**Bedrick, Edward J.** Checking for lack of fit in linear models with parametric variance functions. (English summary)
**Cook, R. Dennis** (*with* Critchley, Frank) Identifying regression outliers and mixtures graphically. (English summary) **2001k:62080**
**Critchley, Frank** *see* **Cook, R. Dennis, 2001k:62080**
**Fei, Yu** (*with* Li, Jun Mei; Bai, Peng) Influence analysis in a multivariate regression model with covariance matrix disturbance. (Chinese. English and Chinese summaries)
**Fernández-Ponce, J. M.** *see* **Muñoz-Pichardo, J. M. et al., 2001b:62054**
**Fung, Wing-Kam** *see* **Pan, Jian-Xin** *and* **Gu, Hong[1]**
**Gu, Hong[1]** (*with* Fung, Wing-Kam) Influence diagnostics in the common canonical variates model. (English summary)
**Hristea, Florentina** On the diagnosis of influential observations in multidimensional linear regression. (English summary)
**Jiménez-Gamero, M. D.** *see* **Muñoz-Pichardo, J. M. et al., 2001b:62054**
**Kim, Myung Geun** Multivariate outliers and decompositions of Mahalanobis distance. (English summary) **2001h:62104**
**Lee, Sik-Yum** *see* **Zhu, Hong-Tu, 2001m:62084**
**Li, Jun Mei** *see* **Fei, Yu et al.**
**Lin, Yi[5]** Tensor product space ANOVA models. (English summary) **2001i:62043**
**Lindkvist, Marie** Properties of added variable plots in Cox's regression model. (English summary) **2001b:62081**
**Loynes, R. M.** A new measure in local influence. (English summary)
**Mao, Shi Song** *see* **You, Jin Hong, 2001h:62123**
**Muñoz-García, J.** *see* **Muñoz-Pichardo, J. M. et al., 2001b:62054**
**Muñoz-Pichardo, J. M.** (*with* Muñoz-García, J.; Fernández-Ponce, J. M.; Jiménez-Gamero, M. D.) Influence analysis in multivariate linear general models. (English summary) **2001b:62054**
**Pan, Jian-Xin** (*with* Fung, Wing-Kam) Bayesian influence assessment in the growth curve model with unstructured covariance. (English summary)
**Pepe, Margaret Sullivan** An interpretation for the ROC curve and inference using GLM procedures. (English and French summaries)

**Tang, Nian Sheng** (*with* Wei, Bo Cheng; Wang, Xue-Ren) Influence diagnostics in nonlinear reproductive dispersion models. (English summary) **2001a:62080**
**Vonthein, Reinhard** ★ Modelldiagnose in der Bayesschen Inferenz. (German. German summary) [Model diagnosis in Bayesian inference] **2001j:62087**
**Wang, Xue-Ren** *see* **Tang, Nian Sheng et al., 2001a:62080**
**Wei, Bo Cheng** *see* **Tang, Nian Sheng et al., 2001a:62080**
**Weiss, Robert E.** *see* **Zhang, Fan[1]**
**You, Jin Hong** (*with* Mao, Shi Song) Assessment of local influence in the GMANOVA-MANOVA with R.S.S. (English and Chinese summaries) **2001h:62123**
**Zhang, Fan[1]** (*with* Weiss, Robert E.) Diagnosing explainable heterogeneity of variance in random-effects models. (English and French summaries)
**Zhu, Hong-Tu** (*with* Lee, Sik-Yum) Local influence for incomplete-data models. (English summary) **2001m:62084**

## 62J99 None of the above, but in this section

**Bravo, José I.** *see* **Fernández, Arturo J. et al.**
**Cao, Bing-yuan** Regression model with $T$-fuzzy variables and its application in the energy sources forecast. (English summary)
**Carroll, Raymond J.** *see* **Liang, Hua et al., 2001a:62094**
**Chowdhury, Sadeq R.** (*with* McGilchrist, C. A.) Matched case control studies with random exposure effects. (English summary)
**De Fuentes, Íñigo** *see* **Fernández, Arturo J. et al.**
**Draper, Norman R.** Applied regression analysis bibliography update 1998–99. (English summary) (*see* **2001e:62002**)
**Fang, Ji Qian** *see* **Jin, Hua**
**Fernández, Arturo J.** (*with* Bravo, José I.; De Fuentes, Íñigo) Piecewise regression models with proportional risks and double censoring. (Spanish. English and Spanish summaries)
**Härdle, Wolfgang** *see* **Liang, Hua et al., 2001a:62094**
**Ip, Wai Cheung** (*with* Wang, Song-Gui) Some properties of relative efficiency of estimators in the regression model for panel data. (English summary) **2001f:62043**
**Jin, Hua** (*with* Fang, Ji Qian) A structural regression model for causal inference under strongly ignorable treatment assignment. (Chinese. English and Chinese summaries)
**Khuri, André I.** *see* **Valeroso, Elsie S., 2001i:62084**
**Kundu, Debasis** (*with* Mitra, Amit) Estimating the number of signals of the damped exponential models. (English summary)
**Li, Chulin** *see* **Xu, Ruo Ning**
**Li, Han Ling** *see* **Wu, Cong et al.**
**Liang, Hua** (*with* Härdle, Wolfgang; Carroll, Raymond J.) Estimation in a semiparametric partially linear errors-in-variables model. (English summary) **2001a:62094**
— Asymptotic normality of parametric part in partially linear models with measurement error in the nonparametric part. (English summary) **2001a:62093**
**McGilchrist, C. A.** *see* **Chowdhury, Sadeq R.**
**Mitra, Amit** *see* **Kundu, Debasis**
**Näther, Wolfgang** On random fuzzy variables of second order and their application to linear statistical inference with fuzzy data. (English summary) **2001h:62133**
— Random fuzzy variables of second order and applications to statistical inference. (English summary)
**Pan, Qi Shu** *see* **Wu, Cong et al.**
**Shalabh, K.** *see* **Srivastava, Anil K.**
**Srivastava, Anil K.** (*with* Shalabh, K.) On the choice of the direction for residual minimization in the ultrastructural model. (English and Italian summaries)
**Tsaur, Ruey-Chyn** *see* **Wang, Hsiao-Fan**
**Valeroso, Elsie S.** (*with* Khuri, André I.) Multiresponse surface models with random block effects. (English summary) **2001i:62084**
**Wang, Hsiao-Fan** (*with* Tsaur, Ruey-Chyn) Resolution of fuzzy regression model. (English summary)
**Wang, Song-Gui** *see* **Ip, Wai Cheung, 2001f:62043**
**Wu, Cong** (*with* Pan, Qi Shu; Li, Han Ling) Fuzzy linear regression prediction. (Chinese. English and Chinese summaries)
**Xu, Ruo Ning** (*with* Li, Chulin) Multidimensional least-squares fitting with a fuzzy model. (English summary)
**Zhang, Chong Gao** The least squares estimates in the fuzzy polynomial prognostic models. (Chinese. English and Chinese summaries)

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**Böhning, Dankmar** *see* **Malzahn, Uwe et al., 2001h:62056**
**Borgan, Ørnulf** *see* **Zhang, Jian, 2001a:62127**
**Chang, Ted** *see* **Hanna, Martin S.**
**Chen, Songnian** (*with* Khan, Shakeeb) Estimating censored regression models in the presence of nonparametric multiplicative heteroskedasticity. (English summary)
**Fang, Jian** *see* **Wang, Zhenyuan et al.**
**Hanna, Martin S.** (*with* Chang, Ted) Fitting smooth histories to rotation data. (English summary)
**Holling, Heinz** *see* **Malzahn, Uwe et al., 2001h:62056**
**Khan, Shakeeb** *see* **Chen, Songnian**
**Lee, Seung-Ho** *see* **Yang, Jinsan**
**Leung, Kwong-Sak** *see* **Wang, Zhenyuan et al.**
**Malzahn, Uwe** (*with* Böhning, Dankmar; Holling, Heinz) Nonparametric estimation of heterogeneity variance for the standardised difference used in meta-analysis. (English summary) **2001h:62056**
**Mexia, João Tiago** (*with* Real, Pedro Corte) Likelihood and parametric heteroscedasticity in normal connected linear models. (English summary) **2001m:62029**
**Real, Pedro Corte** *see* **Mexia, João Tiago, 2001m:62029**
**Stafeev, S. V.** On the Schwarz criterion. (Russian. English and Russian summaries) (*see* **2001e:00010**)
**Wang, Xiao Ming[3]** *see* **Wu, Yao Hua[1]**
**Wang, Zhenyuan** (*with* Leung, Kwong-Sak; Wong, Man-Leung; Fang, Jian; Xu, Kebin) Nonlinear nonnegative multiregressions based on Choquet integrals. (English summary)
**Wong, Man-Leung** *see* **Wang, Zhenyuan et al.**
**Wu, Yao Hua[1]** (*with* Wang, Xiao Ming[3]) The consistency of a best-$r$-points-average estimator for the maximizer of a multivariable regression function. (Chinese. English and Chinese summaries)
**Xu, Kebin** *see* **Wang, Zhenyuan et al.**
**Yang, Jinsan** (*with* Lee, Seung-Ho) Calibration by median regression. (English summary)
**Zhang, Jian** (*with* Borgan, Ørnulf) Aalen's linear model for sampled risk set data: a large sample study. (English summary) **2001a:62127**

# 62Kxx Design of experiments [see also 05Bxx]

## 62K05 Optimal designs

**Agrawal, Niti** *see* **Parsad, Rajender et al.**
**Al-Shiha, A. A.** *see* **Huda, S., 2001e:62067**
**Amoussou, Joël** *see* **David, Olivier et al.**
**Atkinson, Anthony C.** Optimum experimental designs for chemical kinetics and clinical trials. (English summary) (*see* **2001m:62002**)
— (*with* Fedorov, Valerii V.) Some history leading to design criteria for Bayesian prediction. (English summary) (*see* **2001k:62003**)
**Bagui, S. C.** *see* **Thannippara, Alex et al.**
**Bailey, R. A.** *see* **Morgan, John P., 2001i:62086**
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**van Berkum, E. E. M.** (*with* Pauwels, B.; Upperman, P. M.) $D$-optimal designs for quadratic regression models. (English summary) (*see* **2001d:62002**)
**Boer, E. P. J.** (*with* Rasch, D. A. M. K.; Hendrix, Eligius M. T.) Locally optimal designs in non-linear regression: a case study of the Michaelis-Menten function. (*see* **2001d:62002**)
— (*with* Hendrix, Eligius M. T.) Global optimization problems in optimal design of experiments in regression models. (English summary) (*see* **2001h:90004**)
**Brown, Lawrence D.** (*with* Wong, Weng Kee) An algorithmic construction of optimal minimax designs for heteroscedastic linear models. (English summary) **2001a:62095**
**Butler, Neil A.** Properties of optimal polynomial designs under smoothing spline models. (English summary) **2001k:62089**
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**Chai, Feng-Shun** (*with* Majumdar, Dibyen) Optimal designs for nearest-neighbor analysis. (English summary) **2001c:62081**
**Chan, Ling-Yau** Optimal designs for experiments with mixtures: a survey. (English summary) (*see* **2001e:62002**)
**Chan, Nai N.** *see* **Li, Kim-Hung, 2001k:62091**
**Chang, Fu-Chuen** (*with* Huang, Mong-Na Lo; Lin, Dennis K. J.; Yang, Huie-Ching) Optimal designs for dual response polynomial regression models. (English summary) **2001m:62085**
**Chang, Jane Y.** *see* **Lin, Dennis K. J.**
**Das, Ashish D.** (*with* Dey, Aloke; Gupta, Sudhir) $A$-efficient block designs for slope ratio assays. (English summary)
**David, Olivier** (*with* Monod, Hervé; Amoussou, Joël) Optimal complete block designs to adjust for interplot competition with a covariance analysis. (English and French summaries)
**Dette, Holger** Some applications of canonical moments in Fourier regression models. (English summary) (*see* **2001m:62002**)
— (*with* Haines, Linda M.; Imhof, Lorens) Optimal designs for rational models and weighted polynomial regression. (English summary) **2001a:62096**
**Dey, Aloke** *see* **Das, Ashish D. et al.**
**Fan, Shun Hou** Optimal experimental designs for a generalized multivariate linear model. (Chinese. English and Chinese summaries)
**Fandom Noubiap, R.** (*with* Seidel, Wilfried) A minimax algorithm for constructing optimal symmetrical balanced designs for a logistic regression model. (English summary) **2001h:62134**
**Fang, Kai-Tai** (*with* Lin, Dennis K. J.; Winker, Peter; Zhang, Yong[3]) Uniform design: theory and application. (English summary)
**Fang, Zhide** Robust extrapolation designs for biased polynomial models. (English summary) **2001c:62082**
**Fedorov, Valerii V.** (*with* Flanagan, Deborah) Optimal monitoring of computer networks. (English summary) (*see* **2001m:62002**)
— (*with* Lee, Jon[2]) Design of experiments in statistics. (*see* **2001k:90001**)
— *see also* **Atkinson, Anthony C., (2001k:62003)**
**Flanagan, Deborah** *see* **Fedorov, Valerii V., (2001m:62002)**
**Flournoy, Nancy** *see* **Mats, Vladimir A. et al., (2001m:62002)**
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**Goos, P.** (*with* Tack, L.; Vandebroek, M.) Optimal designs for variance function estimation using sample variances. (English summary) **2001k:62090**
**Guan, Ying Nan** (*with* Tong, Yi) Collapsed simplex-centroid designs and its $D$-optimality. (Chinese. English and Chinese summaries)
— *see also* **Zhao, Hong Ya et al.**
**Guiard, V.** (*with* Herrendörfer, G.; Sumpf, D.; Nürnberg, Gerd) About optimal designs for estimating variance components with ANOVA in one-way-classification under non-normality. (English summary) **2001h:62135**
**Gunduz, Necla** *see* **Torsney, Ben, (2001k:62003)**
**Gupta, Sudhir** *see* **Das, Ashish D. et al.**
**Gupta, Vinod Kumar** *see* **Srivastava, Rakesh et al.**
**Haines, Linda M.** *see* **Dette, Holger et al., 2001a:62096**
**Han, Da Wei** *see* **Zhao, Hong Ya et al.**
**Hendrix, Eligius M. T.** *see* **Boer, E. P. J. et al., (2001d:62002)** *and* **(2001h:90004)**
**Heo, Giseon** (*with* Schmuland, Byron; Wiens, Douglas P.) Restricted minimax robust designs for misspecified regression models. (English and French summaries)
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**Hilgers, Ralf-Dieter** $D$-optimal design for Becker's minimum polynomial. (English summary) **2001e:62066**
**Huang, Mong-Na Lo** *see* **Chang, Fu-Chuen et al., 2001m:62085**
**Huda, S.** (*with* Al-Shiha, A. A.) On $D$- and $E$-minimax optimal designs for estimating the axial slopes of a second-order response surface over hypercubic regions. (English summary) **2001e:62067**
**Hurd, Spencer P.** (*with* Sarvate, Dinesh G.) On $c$-Bhaskar Rao designs. (English summary)
**Imhof, Lorens** Optimum designs for a multiresponse regression model. (English summary) **2001a:62097**
— *see also* **Dette, Holger et al., 2001a:62096**
**Iyer, H. K.** *see* **Liao, C. T. et al., 2001a:62099**
**Jacroux, Mike** Some optimal orthogonal and nearly-orthogonal block designs for comparing a set of test treatments to a set of standard treatments. (English summary) **2001m:62086**
**Jeong, Yousceek** Asymptotically optimal adaptive designs in factorial experiments. (English summary) **2001a:62098**
**Jimbo, Masakazu** *see* **Mishima, Miwako et al., 2001e:62068**
**Kovrigin, A. B.** Accurate polynomial designs. (English summary)
**Kpamegan, Eloi P.** $D$-optimal designs given a bivariate probit response function. (English summary) (*see* **2001m:62002**)
**Krylova, L. A.** *see* **Melas, V. B., 2001h:62137**
**Kurian, Benny** *see* **Thannippara, Alex et al.**
**Lee, Jon$^2$** *see* **Fedorov, Valerii V., (2001k:90001)**
**Li, Kim-Hung** (*with* Chan, Nai N.) $L_p$-optimality for regression designs with heteroscedastic errors. (English summary) **2001k:62091**
**Liao, C. T.** (*with* Taylor, C. H.; Iyer, H. K.) Optimal balanced measurement designs when errors are correlated. (English summary) **2001a:62099**
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— *see also* **Chang, Fu-Chuen et al., 2001m:62085** *and* **Fang, Kai-Tai et al.**
**Lin, Hefang** (*with* Myers, Raymond H.; Ye, Keying) Bayesian two-stage optimal design for mixture models. (English summary) **2001k:62092**
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**Majumdar, Dibyen** *see* **Chai, Feng-Shun, 2001c:62081**
**Mandal, Nripes K.** (*with* Shah, Kirti R.; Sinha, Bikas K.) Comparison of test vs. control treatments using distance optimality criterion. (English summary) **2001i:62085**
**Mandal, Saumendranath** (*with* Torsney, Ben) Algorithms for the construction of optimizing distributions. (English summary) (*see* **2001a:62004**)
**Mats, Vladimir A.** (*with* Rosenberger, William F.; Flournoy, Nancy) Restricted optimality for phase I clinical trials. (English summary) (*see* **2001m:62002**)
**Maygula, N. V.** On the duality of the optimal design problem by the $E$-criterion. (English summary)
**Melas, V. B.** Non-Chebyshev $E$-optimal experimental designs and decompositions of positive polynomial. I. (English summary)
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— (*with* Krylova, L. A.) $E$-optimal designs for quadratic regressions on an arbitrary segment. (English summary) **2001h:62137**
— Analytical theory of $E$-optimal designs for polynomial regression. **2001h:62136**
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**Monod, Hervé** *see* **David, Olivier et al.**
**Morgan, John P.** (*with* Bailey, R. A.) Optimal design with many blocking factors. (English summary) **2001i:62086**
**Müller, Peter$^2$** Simulation-based optimal design. (English summary) **2001f:62044**
**Myers, Raymond H.** *see* **Lin, Hefang et al., 2001k:62092**
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**Ogunyemi, Theophilus** (*with* Rao, Calyampudi Radhakrishna; Rao, M. Bhaskara) On improving the quality of minimal $s$-optimal row-column designs. (English summary) **2001h:62138**
**Oyet, Alwell J.** (*with* Wiens, Douglas P.) Robust designs for wavelet approximations of regression models. (English summary) **2001j:62094**
**Parsad, Rajender** (*with* Sreenath, P. R.; Agrawal, Niti) Construction of balanced bipartite block designs with nested rows and columns. (English summary)
— *see also* **Srivastava, Rakesh et al.**
**Pauwels, B.** *see* **van Berkum, E. E. M. et al., (2001d:62002)**
**Rao, Calyampudi Radhakrishna** *see* **Ogunyemi, Theophilus et al., 2001h:62138**
**Rao, M. Bhaskara** *see* **Ogunyemi, Theophilus et al., 2001h:62138**
**Rasch, D. A. M. K.** *see* **Boer, E. P. J. et al., (2001d:62002)**
**Riccomagno, Eva** *see* **Bates, Ronald A. et al., (2001m:62002)**
**Rodríguez-Díaz, J. M.** (*with* López-Fidalgo, J.) Optimal characteristic designs for polynomial models. (English summary) (*see* **2001k:62003**)
**Rosenberger, William F.** *see* **Mats, Vladimir A. et al., (2001m:62002)**
**Sarvate, Dinesh G.** *see* **Hurd, Spencer P.**
**Schmuland, Byron** *see* **Heo, Giseon et al.**
**Schwabe, Rainer** Optimal designs for a one-way layout with covariates. (English summary) **2001c:62083**
— *see also* **Bates, Ronald A. et al., (2001m:62002)**
**Sedunov, E. V.** (*with* Starshinov, A. I.; Shutova, Yu. A.) An optimal experiment on the parametric evaluation of the Poissonian flow density. (English summary)
**Seidel, Wilfried** *see* **Fandom Noubiap, R., 2001h:62134**
**Shah, Kirti R.** *see* **Mandal, Nripes K. et al., 2001i:62085**
**Shirakura, Teruhiro** *see* **Mishima, Miwako et al., 2001e:62068**
**Shutova, Yu. A.** *see* **Sedunov, E. V. et al.**
**Singh Meitei, K. K.** Some supplements to nearly balanced uniform repeated measurements designs. (English summary)
**Sinha, Bikas K.** *see* **Mandal, Nripes K. et al., 2001i:62085**
**Sreenath, P. R.** *see* **Parsad, Rajender et al.**
**Srivastava, Rakesh** (*with* Parsad, Rajender; Gupta, Vinod Kumar) Structure resistant factorial designs. (English summary)
**Starshinov, A. I.** *see* **Sedunov, E. V. et al.**
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**Tack, L.** *see* **Goos, P. et al., 2001k:62090**
**Taylor, C. H.** *see* **Liao, C. T. et al., 2001a:62099**
**Thannippara, Alex** (*with* Kurian, Benny; Ghosh, Dilip Kumar; Bagui, S. C.) Hypercubic designs and $E$-optimality. (English summary)
**Tong, Yi** *see* **Guan, Ying Nan**
**Torsney, Ben** (*with* Gunduz, Necla) On optimal designs for high dimensional binary regression models. (English summary) (*see* **2001k:62003**)
— *see also* **Mandal, Saumendranath, (2001a:62004)**
**Upperman, P. M.** *see* **van Berkum, E. E. M. et al., (2001d:62002)**
**Vandebroek, M.** *see* **Goos, P. et al., 2001k:62090**
**Vasil'ev, K. G.** The average measure and estimates for the size of designs in a ball and a simplex. (Russian. English and Russian summaries) **2001h:62139**
— The Laplace method for estimating the size of designs. (Russian. English and Russian summaries) **2001h:62140**
**Verdinelli, Isabella** A note on Bayesian design for the normal linear model with unknown error variance. (English summary) **2001a:62100**
**Wiens, Douglas P.** (*with* Zhou, Julie) Minimax designs for approximately linear models with AR(1) errors. (English and French summaries) **2001b:62060**
— *see also* **Oyet, Alwell J., 2001j:62094** *and* **Heo, Giseon et al.**
**Winker, Peter** *see* **Fang, Kai-Tai et al.**
**Wong, Weng Kee** *see* **Brown, Lawrence D., 2001a:62095**; **López-Fidalgo, J., (2001d:62002)** *and* **Zhu, Wei$^2$, (2001m:62002)**
**Wynn, Henry P.** *see* **Bates, Ronald A. et al., (2001m:62002)**
**Yang, Huie-Ching** *see* **Chang, Fu-Chuen et al., 2001m:62085**
**Ye, Keying** *see* **Lin, Hefang et al., 2001k:62092**
**Zhang, Yong$^3$** *see* **Fang, Kai-Tai et al.**
**Zhao, Hong Ya** (*with* Guan, Ying Nan; Han, Da Wei) $R$-optimal designs for mixture experiments. (Chinese. English and Chinese summaries)
— (*with* Guan, Ying Nan; Han, Da Wei) $R$-optimal designs for an additive quadratic mixture model. (Chinese. English and Chinese summaries)
**Zhou, Julie** *see* **Wiens, Douglas P., 2001b:62060**
**Zhu, Wei$^2$** (*with* Wong, Weng Kee) Multiple-objective designs in a dose-response experiment. (English summary) (*see* **2001m:62002**)

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**Bai, Zhi-Dong** *see* **Chen, Zehua, 2001e:62018**
**Bhaumik, Dulal K.** (*with* Sen, Pranab Kumar[1]) Universal optimality of Bayesian experimental designs and optimal data augmentations. (English summary) **2001a:62083**
**Bose, Mausumi** (*with* Mukherjee, Bhramar) Cross-over designs in the presence of higher order carry-overs. (English summary) **2001b:62063**
**Chen, Hegang** (*with* Hedayat, A. S.) Some recent advances in minimum aberration designs. (English summary) (*see* **2001m:62002**)
— (*with* Cheng, Ching-Shui) Theory of optimal blocking of $2^{n-m}$ designs. (English summary) **2001b:62061**
**Chen, Zehua** (*with* Bai, Zhi-Dong) The optimal ranked-set sampling scheme for parametric families. (English summary) **2001e:62018**
**Cheng, Ching-Shui** *see* **Chen, Hegang, 2001b:62061**
**Clark, James B.** (*with* Dean, Angela M.) Equivalence of fractional factorial designs. (English summary)
**Dean, Angela M.** *see* **Clark, James B.**
**Dette, Holger** (*with* Lo Huang, Mong-Na) Convex optimal designs for compound polynomial extrapolation. (English summary) **2001h:62112**
— (*with* Grigor'ev, Yu. D.) A unified approach to second order optimality criteria in nonlinear design of experiments. (English summary) **2001h:62113**
— (*with* Roeder, Ingo) Online calculation of efficient designs for multi-factor models. (English summary)
**Duckworth, William Maury, II** Some binary maximin distance designs. (English summary) **2001f:05045**
**Gautier, Roland** (*with* Pronzato, Luc) Adaptive control for sequential design. (English summary)
**Giovagnoli, A.** (*with* Martino, L.) Optimal sampling design with random size clusters for a mixed model with measurement errors. (English summary) (*see* **2001k:62003**)
**Grigor'ev, Yu. D.** *see* **Dette, Holger, 2001h:62113**
**Hedayat, A. S.** *see* **Chen, Hegang, (2001m:62002)**
**Hughes-Oliver, Jacqueline M.** (*with* Rosenberger, William F.) Efficient estimation of the prevalence of multiple rare traits. (English summary) **2001d:62022**
**Iyer, H. K.** *see* **Liao, C. T., 2001c:62084**
**John, J. A.** (*with* Whitaker, D.) Recursive formulae for the average efficiency factor in block and row-column designs. (English summary)
**Liao, C. T.** (*with* Iyer, H. K.) Optimal $2^{n-p}$ fractional factorial designs for dispersion effects under a location-dispersion model. (English summary) **2001c:62084**
**Liu, Min Qian** (*with* Zhang, Run Chu) Construction of $E(s^2)$ optimal supersaturated designs using cyclic BIBDs. (English summary) **2001h:62143**
**Lo Huang, Mong-Na** *see* **Dette, Holger, 2001h:62112**
**Martino, L.** *see* **Giovagnoli, A., (2001k:62003)**
**Morgan, John P.** (*with* Uddin, Nizam) A class of neighbor balanced complete block designs and their efficiencies for spatially correlated errors. (English summary) **2001f:62045**
**Mukherjee, Bhramar** *see* **Bose, Mausumi, 2001b:62063**

**Müller, Christine H.** $L_1$-tests in linear models: tests with maximum relative power. (English summary)
**Müller, Werner G.** ★ Collecting spatial data. (English summary) **2001f:62001**
**Park, DongKwon** *see* **Zhang, Run Chu, 2001h:62144**
**Pronzato, Luc** *see* **Gautier, Roland**
**Roeder, Ingo** *see* **Dette, Holger**
**Rosenberger, William F.** *see* **Hughes-Oliver, Jacqueline M., 2001d:62022**
**Sen, Pranab Kumar**[1] *see* **Bhaumik, Dulal K., 2001a:62083**
**Solov′ëv, V. N.** On the use of symmetry in optimal design of experiments. (English summary) (*see* **2001d:62002**)
**Uddin, Nizam** *see* **Morgan, John P., 2001f:62045**
**Whitaker, D.** *see* **John, J. A.**
**Wiens, Douglas P.** Bias constrained minimax robust designs for misspecified regression models. (English summary) (*see* **2001d:62002**)
**Zhang, Run Chu** (*with* Park, DongKwon) Optimal blocking of two-level fractional factorial designs. (English summary) **2001h:62144**
— *see also* **Liu, Min Qian, 2001h:62143**
**Zhou, Julie** Two robust design approaches for linear models with correlated errors. (English summary)

## 62K10 Block designs

**Adhikary, Basudeb** (*with* Bandyopadhyay, Sanjay) Generalised EGD designs and orthogonal factorial structure. (English summary) **2001g:62042**
**Bandyopadhyay, Sanjay** *see* **Adhikary, Basudeb, 2001g:62042**
**Bortnick, Steven M.** (*with* Dean, Angela M.; Hsu, Jason C.) Block designs for comparison of two test treatments with a control. (English summary) (*see* **2001k:62003**)
**Bueno, Vanderlei Costa** Asymptotic reliability of a linearly connected system with an infinite number of components. (English summary)
**Choi, Kuey Chung** (*with* Gupta, Sudhir) On constructions of optimal complete diallel crosses. (English summary)
**Dean, Angela M.** *see* **Bortnick, Steven M. et al., (2001k:62003)**
**DeCock, Dean** (*with* Stufken, John) On finding mixed orthogonal arrays of strength 2 with many 2-level factors. (English summary)
**Deng, Lih-Yuan** (*with* Li, Yingfu; Tang, Boxin) Catalogue of small runs nonregular designs from Hadamard matrices with generalized minimum aberration. (English summary) (*see* **2001a:62004**)
**Fang, Kai-Tai** *see* **Ma, Chang-Xing et al., 2001a:62101**
**Fernández García, M. P.** *see* **Vallejo Seco, G. et al.**
**Fidalgo Alíste, A. M.** *see* **Vallejo Seco, G. et al.**
**Ganju, Jitendra** On choosing between fixed and random block effects in some no-interaction models. (English summary)
**García-Escudero, Juan** *see* **Vallejo Seco, G. et al.**
**Grala, Jolanta** (*with* Katulska, Krystyna) The likelihood ratio test in the model of the completely randomized block design with Student's $t$ error. (English summary)
**Gupta, Sudhir** *see* **Choi, Kuey Chung**
**Hsu, Jason C.** *see* **Bortnick, Steven M. et al., (2001k:62003)**
**John, J. A.** (*with* Whitaker, D.) Recursive formulae for the average efficiency factor in block and row-column designs. (English summary)
— *see also* **Williams, E. R., 2001e:62069**
**Katulska, Krystyna** *see* **Grala, Jolanta**
**Kuriki, Shinji** (*with* Miyauchi, Hitoshi) The efficiency factor of a cyclic design composed of cyclic designs. (English summary) **2001j:62095**
**Laycock, Patrick J.** (*with* Rowley, Peter J.) On generating and classifying all $q^{n-m}$ regular designs for square-free $q$. (English summary) (*see* **2001k:62003**)
**Li, William** *see* **Ye, Kenny Q. et al.**
**Li, Yingfu** *see* **Deng, Lih-Yuan et al., (2001a:62004)**
**Liski, Erkki** *see* **Ma, Chang-Xing et al., 2001a:62101**
**Liu, Min Qian** (*with* Zhang, Run Chu) A method for constructing $E(s^2)$ optimal supersaturated designs. (Chinese. English and Chinese summaries)
**Ma, Chang-Xing** (*with* Fang, Kai-Tai; Liski, Erkki) A new approach in constructing orthogonal and nearly orthogonal arrays. (English summary) **2001a:62101**
**Mansson, Ralph** *see* **Prescott, Philip, 2001k:62093**
**Misra, B. L.** *see* **Saxena, Ravi R.**
**Miyauchi, Hitoshi** *see* **Kuriki, Shinji, 2001j:62095**
**Monod, Hervé** On the efficiency of generally balanced designs analysed by restricted maximum likelihood. (English summary) (*see* **2001k:62003**)
**Morgan, John P.** (*with* Uddin, Nizam) A class of neighbor balanced complete block designs and their efficiencies for spatially correlated errors. (English summary) **2001f:62045**
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**Prescott, Philip** Projection designs for mixture experiments in orthogonal blocks. (English summary) (*see* **2001e:62002**)
— (*with* Mansson, Ralph) Robustness of balanced incomplete block designs to randomly missing observations. (English summary) **2001k:62093**
**Rowley, Peter J.** *see* **Laycock, Patrick J., (2001k:62003)**
**Sastry, D. V. S.** Generalised balanced matrices and their applications. (English summary)
**Saxena, Ravi R.** (*with* Misra, B. L.) Some constructions of group divisible and rectangular designs. (English summary)
**Sharma, Mahendra Kumar** An alternative method of construction of border circulant plans. (English and Hindi summaries)
**Srivastava, J. N.** Some important classes of problems in statistical experimental design, multivariate analysis, and sampling theory. (English summary)
**Stufken, John** *see* **DeCock, Dean**
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**Tang, Boxin** *see* **Deng, Lih-Yuan et al., (2001a:62004)**
**Uddin, Nizam** *see* **Morgan, John P., 2001f:62045**
**Vallejo Seco, G.** (*with* García-Escudero, Juan; Fidalgo Alíste, A. M.; Fernández García, M. P.) Testing of hypotheses in multivariate split-plot designs with arbitrary dispersion matrices. (Spanish. English and Spanish summaries)
**Whitaker, D.** *see* **John, J. A.**
**Williams, E. R.** (*with* John, J. A.) Updating the average efficiency factor in $\alpha$-designs. (English summary) **2001e:62069**
**Ye, Kenny Q.** (*with* Li, William; Sudjianto, Agus) Algorithmic construction of optimal symmetric Latin hypercube designs. (English summary)
**Zhang, Run Chu** *see* **Liu, Min Qian**
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**Abel, R. Julian R.** (*with* Greig, Malcolm; Miao, Ying; Zhu, Lie[1]) Resolvable BIBDs with block size 7 and index 6. (English summary) **2001j:05018**
**Agrawal, Niti** *see* **Parsad, Rajender et al.**
**Amoussou, Joël** *see* **David, Olivier et al.**
**Bagui, S. C.** *see* **Thannippara, Alex et al.**
**Balasubramanian, Krishnaswami** *see* **Dey, Aloke et al., 2001a:62129**
**Bapat, Ravindra B.** ★ Linear algebra and linear models. (English summary) **2001a:62082**
**Bayrak, Hülya** *see* **Turgut Vanlı, Aysel, 2001m:05062**
**Chai, Feng-Shun** (*with* Majumdar, Dibyen) Optimal designs for nearest-neighbor analysis. (English summary) **2001c:62081**
**Das, Ashish D.** (*with* Dey, Aloke; Gupta, Sudhir) $A$-efficient block designs for slope ratio assays. (English summary)
**David, Olivier** (*with* Monod, Hervé; Amoussou, Joël) Optimal complete block designs to adjust for interplot competition with a covariance analysis. (English and French summaries)
**Dey, Aloke** (*with* Balasubramanian, Krishnaswami; Gupta, Sudhir) Incomplete block designs for slope ratio assays. (English summary) **2001a:62129**
— *see also* **Das, Ashish D. et al.**
**Fuji-Hara, Ryoh** (*with* Miyamoto, Nobuko) Balanced arrays from quadratic functions. (English summary) **2001c:05029**
**Ghosh, Dilip Kumar** *see* **Thannippara, Alex et al.**
**Greig, Malcolm** *see* **Abel, R. Julian R. et al., 2001j:05018**
**Gupta, Sudhir** *see* **Dey, Aloke et al., 2001a:62129** *and* **Das, Ashish D. et al.**
**Hoshino, Nobuaki** (*with* Takemura, Akimichi) On reduction of finite-sample variance by extended Latin hypercube sampling. (English summary) **2001k:65013**
**Hurd, Spencer P.** (*with* Sarvate, Dinesh G.) On $c$-Bhaskar Rao designs. (English summary)
**Jacroux, Mike** Some optimal orthogonal and nearly-orthogonal block designs for comparing a set of test treatments to a set of standard treatments. (English summary) **2001m:62086**
**Khuri, André I.** *see* **Valeroso, Elsie S., 2001i:62084**
**Kurian, Benny** *see* **Thannippara, Alex et al.**
**Lee, Jooho** Asymptotic comparison of Latin hypercube sampling and its stratified version. (English summary) **2001h:65011**
**Liu, Min Qian** (*with* Zhang, Run Chu) Construction of $E(s^2)$ optimal supersaturated designs using cyclic BIBDs. (English summary) **2001h:62143**
**Majumdar, Dibyen** *see* **Chai, Feng-Shun, 2001c:62081**
**Mandal, Nripes K.** (*with* Shah, Kirti R.; Sinha, Bikas K.) Comparison of test vs. control treatments using distance optimality criterion. (English summary) **2001i:62085**
**Miao, Ying** *see* **Abel, R. Julian R. et al., 2001j:05018**
**Miyamoto, Nobuko** *see* **Fuji-Hara, Ryoh, 2001c:05029**
**Monod, Hervé** *see* **David, Olivier et al.**
**Mukerjee, Rahul** (*with* Wu, C. F. J.) Blocking in regular fractional factorials: a projective geometric approach. (English summary) **2001a:62103**
**Ogunyemi, Theophilus** (*with* Rao, Calyampudi Radhakrishna; Rao, M. Bhaskara) On improving the quality of minimal $s$-optimal row-column designs. (English summary) **2001h:62138**
**Park, DongKwon** *see* **Zhang, Run Chu, 2001h:62144**
**Parsad, Rajender** (*with* Sreenath, P. R.; Agrawal, Niti) Construction of balanced bipartite block designs with nested rows and columns. (English summary)
**Rao, Calyampudi Radhakrishna** *see* **Ogunyemi, Theophilus et al., 2001h:62138**
**Rao, M. Bhaskara** *see* **Ogunyemi, Theophilus et al., 2001h:62138**
**Sarvate, Dinesh G.** *see* **Hurd, Spencer P.**
**Shah, Kirti R.** *see* **Mandal, Nripes K. et al., 2001i:62085**
**Singh, Karnail** *see* **Singh, Manjit**
**Singh, Manjit** (*with* Singh, Karnail) Another look at constructing MOLS of non-prime order. (English summary)
**Sinha, Bikas K.** *see* **Mandal, Nripes K. et al., 2001i:62085**
**Sreenath, P. R.** *see* **Parsad, Rajender et al.**
**Takemura, Akimichi** *see* **Hoshino, Nobuaki, 2001k:65013**
**Thannippara, Alex** (*with* Kurian, Benny; Ghosh, Dilip Kumar; Bagui, S. C.) Hypercubic designs and $E$-optimality. (English summary)
**Turgut Vanlı, Aysel** (*with* Bayrak, Hülya) Complete sets of Youden squares corresponding to a partial plane and a restricted configuration. (English summary) **2001m:05062**
**Valeroso, Elsie S.** (*with* Khuri, André I.) Multiresponse surface models with random block effects. (English summary) **2001i:62084**
**Wu, C. F. J.** *see* **Mukerjee, Rahul, 2001a:62103**
**Zhang, Run Chu** (*with* Park, DongKwon) Optimal blocking of two-level fractional factorial designs. (English summary) **2001h:62144**
— *see also* **Liu, Min Qian, 2001h:62143**
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## 62K15 Factorial designs

**Bingham, D. R.** (*with* Sitter, Randy R.) Some theoretical results for fractional factorial split-plot designs. (English summary) **2001h:62141**
**Caboara, Massimo** (*with* Robbiano, Lorenzo) Families of ideals in statistics. (English summary) (*see* **2001i:68010**)
**Chai, Feng-Shun** (*with* Liao, C. T.) Three parallel flats designs for two-level factorial experiments. (English summary)

**Chatterjee, Banibarna** *see* **Das, Premadhis**
**Chatterjee, Kashinath** (*with* Deng, Lih-Yuan; Lin, Dennis K. J.) Resolution V.2 search designs. (English summary) (*see* **2001a:62004**)
**Chen, Hegang** (*with* Hedayat, A. S.) Some recent advances in minimum aberration designs. (English summary) (*see* **2001m:62002**)
— (*with* Cheng, Ching-Shui) Theory of optimal blocking of $2^{n-m}$ designs. (English summary) **2001b:62061**
— *see also* **Suen, Chung-Yi, 2001k:62095**
**Cheng, Ching-Shui** *see* **Chen, Hegang, 2001b:62061**
**Clark, James B.** (*with* Dean, Angela M.) Equivalence of fractional factorial designs. (English summary)
**Das, Ashish D.** *see* **Suen, Chung-Yi et al., 2001k:62096**
**Das, Premadhis** (*with* Chatterjee, Banibarna) On partial balance with orthogonal subfactorial structure. (English summary)
**Dean, Angela M.** *see* **Clark, James B.**
**Deng, Lih-Yuan** *see* **Chatterjee, Kashinath et al., (2001a:62004)**
**Dey, Aloke** (*with* Mukerjee, Rahul) ★ Fractional factorial plans. (English summary) **2001a:62102**
— *see also* **Suen, Chung-Yi et al., 2001k:62096**
**Din, Marilena Aura** Some comparations between full and fractional factorial designs in the covariance approach. (English and Romanian summaries)
**Draper, Norman R.** (*with* Pukelsheim, Friedrich) Polynomial representations for response surface modeling. (English summary) (*see* **2001m:62002**)
**Fang, Kai-Tai** (*with* Mukerjee, Rahul) A connection between uniformity and aberration in regular fractions of two-level factorials. (English summary) **2001b:62062**
**Fontana, Roberto** (*with* Pistone, Giovanni; Rogantin, Maria Piera) Classification of two-level factorial fractions. (English summary) **2001k:62094**
**Gachii, K. N.** (*with* Odhiambo, J. W.) Asymmetrical single replicate designs. (English summary)
**Gilmour, Steven G.** *see* **Tsai, Pi-Wen et al., 2001d:62072**
**Hedayat, A. S.** *see* **Chen, Hegang, (2001m:62002)**
**Hyodo, Yoshifumi** (*with* Yumiba, Hiromu; Yamamoto, Sumiyasu) On fractional $s^m$ factorial designs. (English summary) **2001f:62046**
**Iyer, H. K.** *see* **Liao, C. T., 2001c:62084**
**John, Peter W. M.** Breaking alias chains in fractional factorials. (English summary) **2001h:62142**
**Laycock, Patrick J.** (*with* Rowley, Peter J.) On generating and classifying all $q^{n-m-l}$ regularly blocked factional designs. [On generating and classifying all $q^{n-m-l}$ regularly blocked fractional designs] (*see* **2001d:62002**)
**Liao, C. T.** (*with* Iyer, H. K.) Optimal $2^{n-p}$ fractional factorial designs for dispersion effects under a location-dispersion model. (English summary) **2001c:62084**
— *see also* **Chai, Feng-Shun**
**Lin, Dennis K. J.** *see* **Chatterjee, Kashinath et al., (2001a:62004)**
**Liu, Min Qian** (*with* Zhang, Run Chu) A criterion and an algorithm on constructing 3-level factorial supersaturated designs. (Chinese. English and Chinese summaries)
— (*with* Zhang, Run Chu) Computation of the $E(s^2)$ values of some $E(s^2)$ optimal supersaturated designs. (English summary) **2001m:62087**
— (*with* Zhang, Run Chu) Construction of $E(s^2)$ optimal supersaturated designs using cyclic BIBDs. (English summary) **2001h:62143**
**Mead, Roger** *see* **Tsai, Pi-Wen et al., 2001d:62072**
**Mee, Robert W.** (*with* Peralta, Marta) Semifolding $2^{k-p}$ designs. (English summary)
**Mizere, Dominique** Detection of the more influential levels in the three-factor factorial design with additive effects. (English summary)
**Morgenthaler, Stephan** Properties of $L^1$ residuals. (English summary)
**Mukerjee, Rahul** (*with* Wu, C. F. J.) Blocking in regular fractional factorials: a projective geometric approach. (English summary) **2001a:62103**
— *see also* **Dey, Aloke, 2001a:62102** *and* **Fang, Kai-Tai, 2001b:62062**
**Odhiambo, J. W.** *see* **Gachii, K. N.**
**Park, DongKwon** *see* **Zhang, Run Chu, 2001h:62144**
**Peralta, Marta** *see* **Mee, Robert W.**
**Pistone, Giovanni** *see* **Fontana, Roberto et al., 2001k:62094**
**Pukelsheim, Friedrich** *see* **Draper, Norman R., (2001m:62002)**
**Robbiano, Lorenzo** *see* **Caboara, Massimo, (2001i:68010)**
**Rogantin, Maria Piera** *see* **Fontana, Roberto et al., 2001k:62094**
**Rowley, Peter J.** *see* **Laycock, Patrick J., (2001d:62002)**
**Shao, Qin** *see* **Zhang, Run Chu**
**Sitter, Randy R.** *see* **Bingham, D. R., 2001h:62141**
**Suen, Chung-Yi** (*with* Chen, Hegang) A family of regular fractional factorial designs with maximum resolution. (English summary) **2001k:62095**
— (*with* Das, Ashish D.; Dey, Aloke) On the construction of asymmetric orthogonal arrays. (English summary) **2001k:62096**
**Tsai, Pi-Wen** (*with* Gilmour, Steven G.; Mead, Roger) Projective three-level main effects designs robust to model uncertainty. (English summary) **2001d:62072**
**Wu, C. F. J.** *see* **Mukerjee, Rahul, 2001a:62103**
**Yamamoto, Sumiyasu** *see* **Hyodo, Yoshifumi et al., 2001f:62046**
**Yumiba, Hiromu** *see* **Hyodo, Yoshifumi et al., 2001f:62046**
**Zhang, Run Chu** (*with* Park, DongKwon) Optimal blocking of two-level fractional factorial designs. (English summary) **2001h:62144**
— (*with* Shao, Qin) Minimum aberration $(S^2)S^{n-k}$ designs. (English summary)
— *see also* **Liu, Min Qian, 2001h:62143** *and* **2001m:62087**

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**Bandyopadhyay, Sanjay** *see* **Adhikary, Basudeb, 2001g:62042**
**Bates, Ronald A.** (*with* Riccomagno, Eva; Schwabe, Rainer; Wynn, Henry P.) The use of lattices in the design of high-dimensional experiments. (English summary) (*see* **2001m:62002**)
**Brunner, Edgar** (*with* Munzel, Ullrich; Puri, Madan L.) Rank-score tests in factorial designs with repeated measures. (English summary) **2001c:62063**
— *see also* **Munzel, Ullrich, 2001d:62035**
**Burgess, Leonie** (*with* Kreher, Donald L.; Street, Deborah J.) Erratum: "Small orthogonal main effect plans with four factors" [Comm. Statist. Theory Methods **28** (1999), no. 10, 2441–2464; MR 2000f:05017].
**Chalton, D. O.** *see* **Pesotan, H. et al., 2001h:94032**
**Gieser, Peter W.** *see* **Randles, Ronald H., 2001j:62091**
**Gupta, Vinod Kumar** *see* **Srivastava, Rakesh et al.**
**Hoshino, Nobuaki** (*with* Takemura, Akimichi) On reduction of finite-sample variance by extended Latin hypercube sampling. (English summary) **2001k:65013**
**Illarionov, V. V.** On the search for essential factors in a linear model. (Russian. English and Russian summaries) **2001j:62093**
**Jimbo, Masakazu** *see* **Mishima, Miwako et al., 2001e:62068**
**Kobilinsky, A.** Reparametrisation of interest in non-uniform factorial designs. (English summary) **2001j:62090**
**Kreher, Donald L.** *see* **Burgess, Leonie et al.**
**Laycock, Patrick J.** (*with* Rowley, Peter J.) On generating and classifying all $q^{n-m}$ regular designs for square-free $q$. (English summary) (*see* **2001k:62003**)
**Mishima, Miwako** (*with* Jimbo, Masakazu; Shirakura, Teruhiro) On the optimality of orthogonal array in case of correlated errors. (English summary) **2001e:62068**
**Monga, E.** (*with* Tardif, Serge) Asymptotic optimality of a class of rank tests for replicated Latin-square designs. (English and French summaries) **2001b:62040**
**Monlezun, Charles J.** A note concerning polynomial coefficients when all factors are quantitative. Addendum to: "Fitting polynomials to main effects in multifactor experiments: unequal spacing and unbalanced data with no missing cells" [Comm. Statist. Theory Methods **28** (1999), no. 12, 2899–2916; 1729008]. (English summary)
**Munzel, Ullrich** (*with* Brunner, Edgar) Nonparametric methods in multivariate factorial designs. (English summary) **2001d:62035**
— *see also* **Brunner, Edgar et al., 2001c:62063**
**Parsad, Rajender** *see* **Srivastava, Rakesh et al.**
**Pesotan, H.** (*with* Raktoe, B. L.; Chalton, D. O.) Perfect linear codes, complete prime powered orthogonal arrays and saturated prime powered fractional factorial designs. (English summary) **2001h:94032**
**Puri, Madan L.** *see* **Brunner, Edgar et al., 2001c:62063**
**Raktoe, B. L.** *see* **Pesotan, H. et al., 2001h:94032**
**Randles, Ronald H.** (*with* Gieser, Peter W.) Distribution-free tests for main effects and interactions in multivariate repeated measures designs. (English summary) **2001j:62091**
**Riccomagno, Eva** *see* **Bates, Ronald A. et al., (2001m:62002)**
**Rowley, Peter J.** *see* **Laycock, Patrick J., (2001k:62003)**
**Schwabe, Rainer** *see* **Bates, Ronald A. et al., (2001m:62002)**
**Shirakura, Teruhiro** *see* **Mishima, Miwako et al., 2001e:62068**
**Srivastava, J. N.** Some important classes of problems in statistical experimental design, multivariate analysis, and sampling theory. (English summary)
**Srivastava, Rakesh** (*with* Parsad, Rajender; Gupta, Vinod Kumar) Structure resistant factorial designs. (English summary)
**Street, Deborah J.** *see* **Burgess, Leonie et al.**
**Takemura, Akimichi** *see* **Hoshino, Nobuaki, 2001k:65013**
**Tardif, Serge** *see* **Monga, E., 2001b:62040**
**Wynn, Henry P.** *see* **Bates, Ronald A. et al., (2001m:62002)**

## 62K20 Response surface designs

**Aggarwal, M. L.** (*with* Gupta, Bhisham Chand; Bansal, Anita) Small robust response-surface designs for quantitative and qualitative factors. (English summary) (*see* **2001e:00025**)
**Bansal, Anita** *see* **Aggarwal, M. L. et al., (2001e:00025)**
**Carter, Walter H.** *see* **Kuhn, Andrew M. et al.**
**Gupta, Bhisham Chand** *see* **Aggarwal, M. L. et al., (2001e:00025)**
**Kuhn, Andrew M.** (*with* Carter, Walter H.; Myers, Raymond H.) Incorporating noise factors into experiments with censored data. (English summary)
**Lim, Yong B.** (*with* So, Beong Soo) A note on the optimal number of centre runs in a second phase design of response surface methods. (English summary)
**Myers, Raymond H.** *see* **Kuhn, Andrew M. et al.**
**So, Beong Soo** *see* **Lim, Yong B.**

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**Al-Shiha, A. A.** *see* **Huda, S., 2001e:62067**
**Draper, Norman R.** (*with* Pukelsheim, Friedrich) Polynomial representations for response surface modeling. (English summary) (*see* **2001m:62002**)
**Huda, S.** (*with* Al-Shiha, A. A.) On $D$- and $E$-minimax optimal designs for estimating the axial slopes of a second-order response surface over hypercubic regions. (English summary) **2001e:62067**
**Khuri, André I.** *see* **Paul, Sofia, (2001e:62002)**
**Paul, Sofia** (*with* Khuri, André I.) Modified ridge analyses under nonstandard conditions. (English summary) (*see* **2001e:62002**)
**Pukelsheim, Friedrich** *see* **Draper, Norman R., (2001m:62002)**

## 62K25 Robust parameter designs

**Biswas, P. C.** *see* **Ghosh, Dilip Kumar**
**Ghosh, Dilip Kumar** (*with* Biswas, P. C.) Robust designs for diallel crosses against the missing of one block. (English summary)
**Rajesh, J.** *see* **Taguchi, Genichi**
**Taguchi, Genichi** (*with* Rajesh, J.) New trends in multivariate diagnosis. (English summary)
**Wiens, Douglas P.** Bias constrained minimax robust designs for misspecified regression models. (English summary) (*see* **2001d:62002**)
**Zhou, Julie** Two robust design approaches for linear models with correlated errors. (English summary)

Items with secondary classifications in 62K25

**Fang, Zhide** Robust extrapolation designs for biased polynomial models. (English summary) **2001c:62082**
**Gilmour, Steven G.** *see* **Tsai, Pi-Wen et al., 2001d:62072**
**López-Fidalgo, J.** (*with* Wong, Weng Kee) A comparative study of MV- and SMV-optimal designs for binary response models. (English summary) (*see* **2001d:62002**)
**Mansson, Ralph** *see* **Prescott, Philip, 2001k:62093**
**Mead, Roger** *see* **Tsai, Pi-Wen et al., 2001d:62072**
**Oyet, Alwell J.** (*with* Wiens, Douglas P.) Robust designs for wavelet approximations of regression models. (English summary) **2001j:62094**
**Prescott, Philip** (*with* Mansson, Ralph) Robustness of balanced incomplete block designs to randomly missing observations. (English summary) **2001k:62093**
**Tsai, Pi-Wen** (*with* Gilmour, Steven G.; Mead, Roger) Projective three-level main effects designs robust to model uncertainty. (English summary) **2001d:62072**
**Wiens, Douglas P.** *see* **Oyet, Alwell J., 2001j:62094**
**Wong, Weng Kee** *see* **López-Fidalgo, J., (2001d:62002)**

## 62K99 None of the above, but in this section

**Bose, Mausumi** (*with* Mukherjee, Bhramar) Cross-over designs in the presence of higher order carry-overs. (English summary) **2001b:62063**
**Colbourn, Charles J.** *see* **Riccio, Laura**
**Draper, Norman R.** (*with* Pukelsheim, Friedrich) Kiefer ordering of simplex designs for first- and second-degree mixture models. (English summary) **2001f:62047**
— (*with* Heiligers, Berthold; Pukelsheim, Friedrich) Kiefer ordering of simplex designs for second-degree mixture models with four or more ingredients. (English summary) **2001e:62087**
**Giglio, Beatrice** (*with* Riccomagno, Eva; Wynn, Henry P.) Gröbner basis strategies in regression. (English summary)
— (*with* Wynn, Henry P.; Riccomagno, Eva) Gröbner basis methods in mixture experiments and generalisations. (English summary) (*see* **2001k:62003**)
**Heiligers, Berthold** *see* **Draper, Norman R. et al., 2001i:62087**
**Mukherjee, Bhramar** *see* **Bose, Mausumi, 2001b:62063**
**Pukelsheim, Friedrich** *see* **Draper, Norman R. et al., 2001f:62047** *and* **2001i:62087**
**Riccio, Laura** (*with* Colbourn, Charles J.) Sharper bounds in adaptive group testing. (English summary)
**Riccomagno, Eva** *see* **Giglio, Beatrice et al., (2001k:62003)**
**Wynn, Henry P.** *see* **Giglio, Beatrice et al., (2001k:62003)**
**Zwanzig, Silvelyn** On the criteria for experimental design in nonlinear error-in-variables models. (English summary) (*see* **2001d:62002**)

Items with secondary classifications in 62K99

**Draper, Norman R.** (*with* Guttman, Irwin) Assessing prior information for designed experiments. (English summary) (*see* **2001e:62002**)
— Applied regression analysis bibliography update 1998–99. (English summary) (*see* **2001e:62002**)
**Ermakov, Sergei Mikhallovich** (*with* Schwabe, Rainer) On randomizing estimators in linear regression models. (English summary) (*see* **2001d:62002**)
**Fang, Kai-Tai** (*with* Geng, Zhi; Tian, Guo-Liang) Statistical inference for truncated Dirichlet distribution and its application in misclassification. (English summary) **2001m:62037**
**Fang, Zhide** (*with* Wiens, Douglas P.) Integer-valued, minimax robust designs for estimation and extrapolation in heteroscedastic, approximately linear models. (English summary)
**Geng, Zhi** *see* **Fang, Kai-Tai et al., 2001m:62037**
**Guttman, Irwin** *see* **Draper, Norman R., (2001e:62002)**
**Hwang, Frank K.** (*with* Liu, Y. C.) The expected numbers of unresolved positive clones for various random pool designs. (English summary)
**Khuri, André I.** *see* **Lee, Juneyoung**
**Kinateder, Kimberly K. J.** (*with* Voss, Daniel T.; Wang, Weizhen) Exact confidence intervals in analysis of nonorthogonal saturated designs. (English summary) (*see* **2001e:00025**)
**Lee, Juneyoung** (*with* Khuri, André I.) Quantile dispersion graphs for the comparison of designs for a random two-way model. (English summary)
**Liu, Y. C.** *see* **Hwang, Frank K.**
**Macula, Anthony J.** (*with* Torney, David C.; Vilenkin, Pavel A.) Two-stage group testing for complexes in the presence of errors. (English summary) **2001j:92001**
**Melfi, Vincent F.** (*with* Page, Connie) Estimation after adaptive allocation. (English summary) **2001b:62064**
**Page, Connie** *see* **Melfi, Vincent F., 2001b:62064**
**Salsburg, David** ★ The lady tasting tea. (English summary) **2001j:62005**
**Schwabe, Rainer** *see* **Ermakov, Sergei Mikhallovich, (2001d:62002)**
**Tian, Guo-Liang** *see* **Fang, Kai-Tai et al., 2001m:62037**
**Torney, David C.** Sets pooling designs. (English summary) **2001d:05031**
— *see also* **Macula, Anthony J. et al., 2001j:92001**
**Vilenkin, Pavel A.** *see* **Macula, Anthony J. et al., 2001j:92001**
**Voss, Daniel T.** *see* **Kinateder, Kimberly K. J. et al., (2001e:00025)**
**Wang, Weizhen** *see* **Kinateder, Kimberly K. J. et al., (2001e:00025)**
**Wiens, Douglas P.** *see* **Fang, Zhide**

# 62Lxx Sequential methods

## 62L05 Sequential design

**Ahmad, Manzoor** (*with* Chaubey, Yogendra P.) Bayesian estimation of the size of a population under a sequential sampling design. (English summary) (*see* **2001e:00025**)
**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) Allocation by randomized play-the-winner rule in the presence of prognostic factors. (English summary) **2001a:62104**
— (*with* Biswas, Atanu) A class of adaptive designs. (English summary) **2001d:62073**
**Biswas, Atanu** Stopping rule in delayed response randomized play-the-winner rule. (English summary) **2001e:62070**
— *see also* **Bandyopadhyay, Uttam, 2001a:62104** *and* **2001d:62073**
**Chang, Yuan-chin Ivan** Sequential confidence regions of generalized linear models with adaptive designs. (English summary)
**Chaubey, Yogendra P.** *see* **Ahmad, Manzoor, (2001e:00025)**
**Dirienzo, A. Gregory** Using urn models for the design of clinical trials. (English summary)
**Durham, Stephen D.** *see* **Ivanova, Anastasia et al., 2001h:62145**
**Flournoy, Nancy** *see* **Ivanova, Anastasia et al., 2001h:62145**
**Gautier, Roland** (*with* Pronzato, Luc) Adaptive control for sequential design. (English summary)
**Ivanova, Anastasia** (*with* Rosenberger, William F.; Durham, Stephen D.; Flournoy, Nancy) A birth and death urn for randomized clinical trials: asymptotic methods. (English summary) **2001h:62145**
**Lin, Chien-Tai** (*with* Shiau, C. J.) Some optimal strategies for bandit problems with beta prior distributions. (English summary) **2001d:62074**
**Mallik, Ashim K.** A Bayesian comparison of group sequential designs. (English summary) (*see* **2001m:62002**)
**Melfi, Vincent F.** (*with* Page, Connie) Estimation after adaptive allocation. (English summary) **2001b:62064**
**Notz, William I.** *see* **Williams, Brian J. et al., 2001m:62088**
**O'Quigley, John** *see* **Shen, Larry Z., 2001h:62146**
**Page, Connie** *see* **Melfi, Vincent F., 2001b:62064**
**Pronzato, Luc** Sequential construction of an experimental design from an i.i.d. sequence of experiments without replacement. (English summary) (*see* **2001k:62003**)
— *see also* **Gautier, Roland**
**Rosenberger, William F.** *see* **Ivanova, Anastasia et al., 2001h:62145**
**Santner, Thomas J.** *see* **Williams, Brian J. et al., 2001m:62088**
**Shen, Larry Z.** (*with* O'Quigley, John) Using a one-parameter model to sequentially estimate the root of a regression function. (English summary) **2001h:62146**
**Shiau, C. J.** *see* **Lin, Chien-Tai, 2001d:62074**
**Spokoiny, V. G.** Efficient estimation and experimental design for controlled systems. Asymptotic approach. (English summary) **2001e:62071**
**Wang, Xikui** A bandit process with delayed responses. (English summary) **2001g:62043**
**Williams, Brian J.** (*with* Santner, Thomas J.; Notz, William I.) Sequential design of computer experiments to minimize integrated response functions. (English summary) **2001m:62088**

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**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) An alternative test on Bernoulli success probability. (English summary) **2001c:62017**
**Biswas, Atanu** *see* **Bandyopadhyay, Uttam, 2001c:62017**
**Chan, Wenyaw** (*with* Peng, Nan Fu) A minimum-cost strategy for cluster recruitment. (English summary)
**Chao, Min Te** (*with* Fuh, C. D.) Bootstrap methods for the up and down test on pyrotechnics sensitivity analysis. (English summary) **2001m:62044**
**Chen, Yung-Pin** Which design is better? Ehrenfest urn versus biased coin. (English summary) **2001j:60131**
**Flournoy, Nancy** *see* **Mats, Vladimir A. et al., (2001m:62002)**
**Fuh, C. D.** *see* **Chao, Min Te, 2001m:62044**
**Jeong, Youseek** Asymptotically optimal adaptive designs in factorial experiments. (English summary) **2001a:62098**
**Kramer, Holger** (*with* Schmid, Wolfgang P.) The influence of parameter estimation on the ARL of Shewhart type charts for time series. (English summary) **2001d:62104**
**Kulkarni, Sanjeev R.** (*with* Lugosi, Gábor) Finite-time lower bounds for the two-armed bandit problem. (English summary) **2001c:93117**
**Lugosi, Gábor** *see* **Kulkarni, Sanjeev R., 2001c:93117**
**Magnac, Thierry** (*with* Robin, Jean-Marc) Dynamic stochastic dominance in bandit decision problems. (English summary) **2001g:93087**
**Mats, Vladimir A.** (*with* Rosenberger, William F.; Flournoy, Nancy) Restricted optimality for phase I clinical trials. (English summary) (*see* **2001m:62002**)
**Park, Dongryeon** Sequential design for local bandwidth response curve estimator. (English summary)
**Peng, Nan Fu** *see* **Chan, Wenyaw**
**Robin, Jean-Marc** *see* **Magnac, Thierry, 2001g:93087**
**Rosenberger, William F.** *see* **Mats, Vladimir A. et al., (2001m:62002)**
**Schmid, Wolfgang P.** *see* **Kramer, Holger, 2001d:62104**
**Wong, Weng Kee** *see* **Zhu, Wei², (2001m:62002)**
**Zhu, Wei²** (*with* Wong, Weng Kee) Multiple-objective designs in a dose-response experiment. (English summary) (*see* **2001m:62002**)

## 62L10 Sequential analysis

**Aoki, Mitsuru** (*with* Aoshima, Makoto) An optimal two-stage procedure in comparison with a control. (Japanese) (*see* **2001g:62003**)
— *see also* **Aoshima, Makoto, 2001h:62147**
**Aoshima, Makoto** (*with* Takada, Yoshikazu) Second-order properties of a two-stage procedure for comparing several treatments with a control. (English summary)
— (*with* Aoki, Mitsuru) Two-stage procedure having exact consistency and second-order properties for the $s$ best selection. (English summary) **2001h:62147**
— *see also* **Aoki, Mitsuru, (2001g:62003)**
**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) Some sequential-type conditional tests in clinical trials based on generalized randomized play-the-winner rule. (English and Italian summaries)
**Bar-Lev, Shaul K.** (*with* Boukai, Benzion) On a UMP and curtailed double sampling test for proportions. (English summary)
**Baron, Michael I.** Nonparametric adaptive change-point estimation and on-line detection. (English summary) **2001d:62075**

**Beibel, M.** Sequential detection of signals with known shape and unknown magnitude. (English summary) **2001f:62048**
**Bishop, Jim** Bounds on $p$-values for a class of stopping rules. (English summary) **2001d:62076**
**Biswas, Atanu** *see* **Bandyopadhyay, Uttam**
**Borovkov, Aleksandr Alekseevich** Asymptotically optimal solutions in a change-point problem. (Russian. Russian summary) **2001g:62044**
**Boukai, Benzion** *see* **Bar-Lev, Shaul K.**
**Coad, D. S.** (*with* Govindarajulu, Z.) Corrected confidence intervals following a sequential adaptive clinical trial with binary responses. (English summary)
**Denne, Jonathan S.** (*with* Jennison, Christopher) A group sequential $t$-test with updating of sample size. (English summary) **2001b:62065**
**Dragalin, Vladimir P.** (*with* Tartakovskiĭ, Aleksandr; Veeravalli, Venugopal V.) Multihypothesis sequential probability ratio tests. II. Accurate asymptotic expansions for the expected sample size. (English summary) **2001d:62077**
**Gombay, Edit** $U$-statistics for sequential change detection. (English summary)
— Sequential change-point detection with likelihood ratios. (English summary) **2001e:62072**
**Govindarajulu, Z.** *see* **Coad, D. S.**
**Jennison, Christopher** *see* **Denne, Jonathan S., 2001b:62065**
**Kovalev, V. I.** *see* **Zhuk, S. Ya.**
**Krieger, Abba M.** *see* **Yakir, Benjamin et al., 2001h:62148**
**Liu, Aiyi** Maximum likelihood estimate following sequential probability ratio tests. (English summary) **2001d:62078**
**Malyutov, M. B.** (*with* Tsitovich, I. I.) Asymptotically optimal sequential hypothesis testing. (Russian. Russian summary) **2001m:62089**
**Nishihira, Yuji** Sufficiency and transitivity in sequential decision theory. (English and Turkish summaries) **2001j:62096**
**Peskir, Goran** (*with* Shiryaev, Albert N.) Sequential testing problems for Poisson processes. (English summary) **2001m:62090**
**Pollak, Moshe** *see* **Yakir, Benjamin et al., 2001h:62148**
**Rosenbloom, E. S.** Selecting the best of $k$ multinomial parameter estimation procedures using SPRT. (English summary) **2001j:62097**
**Shiryaev, Albert N.** *see* **Peskir, Goran, 2001m:62090**
**Takada, Yoshikazu** *see* **Aoshima, Makoto**
**Tartakovskiĭ, Aleksandr** *see* **Dragalin, Vladimir P. et al., 2001d:62077**
**Tsitovich, I. I.** *see* **Malyutov, M. B., 2001m:62089**
**Veeravalli, Venugopal V.** *see* **Dragalin, Vladimir P. et al., 2001d:62077**
**Wassmer, Gernot** Basic concepts of group sequential and adaptive group sequential test procedures. (English summary)
**Yakir, Benjamin** (*with* Krieger, Abba M.; Pollak, Moshe) Detecting a change in regression: first-order optimality. (English summary) **2001h:62148**
**Yarlykov, N. E.** Distribution laws for the termination of exponential and binomial sequential procedures. (Russian. Russian summary)
**Zhuk, S. Ya.** (*with* Kovalev, V. I.) A multi-alternative sequential decision rule with rejection of unsuccessful hypotheses. (Russian. English, Russian and Ukrainian summaries)

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**Aoshima, Makoto** (*with* Dudewicz, Edward J.; Hyakutake, Hiroto) Selection of the best normal population: a new exact solution, asymptotically optimal when $k = 2$. (English summary) **2001h:62030**
**(Aries, A. B.)** *see* **Liptser, Robert Sh., 2001k:60001b**
**Bad-Dumitrescu, Monica E.** On an integer-CUSUM control procedure for a Bernoulli process. (English summary)
**Bandyopadhyay, Uttam** (*with* Biswas, Atanu) Allocation by randomized play-the-winner rule in the presence of prognostic factors. (English summary) **2001a:62104**
**Biswas, Atanu** Stopping rule in delayed response randomized play-the-winner rule. (English summary) **2001e:62070**
— *see also* **Bandyopadhyay, Uttam, 2001a:62104**
**Brodskiĭ, B. E.** (*with* Darkhovskiĭ, B. S.) Problems and methods of probabilistic diagnostics. (Russian. Russian summary) **2001h:62194**
**Burkatovskaya, Yu. B.** (*with* Vorobeĭchikov, S. È.) Detection of a change point in an autoregression process observed with noise. (Russian. Russian summary) **2001m:62098**
**Darkhovskiĭ, B. S.** *see* **Brodskiĭ, B. E., 2001h:62194**
**Dudewicz, Edward J.** *see* **Aoshima, Makoto et al., 2001h:62030**
**Good, I. J.** Turing's anticipation of empirical Bayes in connection with the cryptanalysis of the naval Enigma. (English summary) **2001k:62008**
**Greenshtein, Eitan** (*with* Ritov, Ya'acov) Sampling from a stationary process and detecting a change in the mean of a stationary distribution. (English summary) **2001h:62153**
**Hyakutake, Hiroto** *see* **Aoshima, Makoto et al., 2001h:62030**
**Kokoszka, Piotr** (*with* Leipus, Remigijus) Testing for parameter changes in ARCH models. (English and Lithuanian summaries) **2001a:62117**
**Koyama, Nobuyuki** *see* **Kusama, T., 2001c:62006**
**Kusama, T.** (*with* Koyama, Nobuyuki) Complete classes in comparison of sequential binomial experiments. (English summary) **2001c:62006**
**Leipus, Remigijus** *see* **Kokoszka, Piotr, 2001a:62117**
**Liptser, Robert Sh.** (*with* Shiryaev, Albert N.) ★Statistics of random processes. II. (English summary) **2001k:60001b**
**Murray, Susan** Nonparametric rank-based methods for group sequential monitoring of paired censored survival data. (English and French summaries)
**Ovchinnikova, T. M.** (*with* Trifonov, A. P.) Detection and estimation of the instant of change of unknown intensity of a Poisson flow. I. (Russian. Russian summary)
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**Ritov, Ya'acov** *see* **Greenshtein, Eitan, 2001h:62153**
**Shiryaev, Albert N.** *see* **Liptser, Robert Sh., 2001k:60001b**
**Trifonov, A. P.** *see* **Ovchinnikova, T. M.**
**Vorobeĭchikov, S. È.** *see* **Burkatovskaya, Yu. B., 2001m:62098**

## 62L12 Sequential estimation

**Balakrishna, N.** (*with* Jacob, T. M.) Sequential estimation of the mean of a first order random coefficient autoregressive process. (English summary) **2001m:62091**
**Chaturvedi, Ajit** (*with* Rani, Uma) On the classes of two-stage procedures to construct fixed-width confidence regions. (English summary) **2001f:62049**
**Ermakov, M. S.** Bayesian sequential estimation of the location parameter of nonsmooth density. (Russian. English and Russian summaries) **2001j:62098**
**Gastwirth, Joseph L.** *see* **Johnson, Wesley O., 2001e:62073**
**Govindarajulu, Z.** Sequential risk-efficient estimation of the parameter in the uniform density. (English summary) **2001g:62045**
— (*with* Nanthakumar, A.) Sequential estimation of the mean logistic response function. (English summary)
**Hall, W. J.** *see* **Whitehead, John Raymond et al., 2001h:62150**
**Isogai, Eiichi** (*with* Uno, Chikara) Sequential procedures for estimating the mean with squared relative error loss. (English summary)
— (*with* Uno, Chikara) Improved sequential procedures for estimating the percentile of a normal distribution. (English summary)
**Jacob, T. M.** *see* **Balakrishna, N., 2001m:62091**
**Johnson, Wesley O.** (*with* Gastwirth, Joseph L.) Dual group screening. (English summary) **2001e:62073**
**Jokiel-Rokita, Alicja** (*with* Magiera, Ryszard) Estimation with delayed observations for the multinomial distribution. (English summary) **2001f:62050**
**Kim, Sung Kyun** (*with* Kim, Sung Lai) Sequential confidence intervals for quantiles based on recursive density estimators. (English summary) **2001b:62066**
**Kim, Sung Lai** *see* **Kim, Sung Kyun, 2001b:62066**
**Konev, Viktor** (*with* Le Breton, Alain) Guaranteed parameter estimation in a first-order autoregressive process with infinite variance. (English summary) **2001d:62079**
**Le Breton, Alain** *see* **Konev, Viktor, 2001d:62079**
**Liu, Wei[4]** (*with* Wang, Nan) Asymptotic expansions for the moments of a randomly stopped average: extension and applications of a result of Aras and Woodroofe. (English summary)
**Magiera, Ryszard** *see* **Jokiel-Rokita, Alicja, 2001f:62050**
**Martinsek, Adam T.** Sequential estimation of the maximum in a model for corrosion data. (English summary) **2001m:62092**
**Nanthakumar, A.** *see* **Govindarajulu, Z.**
**Rani, Uma** *see* **Chaturvedi, Ajit, 2001f:62049**
**Sriram, T. N.** (*with* Vidyashankar, A. N.) Sequential point estimation for branching processes. I. Subcritical case. (English summary) **2001h:62149**
**Takada, Yoshikazu** Sequential point estimation of normal mean under LINEX loss function. (English summary)
**Todd, Susan** *see* **Whitehead, John Raymond et al., 2001h:62150**
**Uno, Chikara** *see* **Isogai, Eiichi**
**Vidyashankar, A. N.** *see* **Sriram, T. N., 2001h:62149**
**Wang, Nan** *see* **Liu, Wei[4]**
**Weng, Ruby C.** (*with* Woodroofe, Michael) Integrable expansions for posterior distributions for multiparameter exponential families with applications to sequential confidence levels. (English summary) **2001e:62074**
**Whitehead, John Raymond** (*with* Todd, Susan; Hall, W. J.) Confidence intervals for secondary parameters following a sequential test. (English summary) **2001h:62150**
**Woodroofe, Michael** *see* **Weng, Ruby C., 2001e:62074**

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**Antoch, Jaromír** (*with* Hušková, Marie) Bayesian like $R$- and $M$-estimators of change points. (English summary) **2001f:62023**
**Aoshima, Makoto** (*with* Mukhopadhyay, Nitis) Second-order properties of a two-stage fixed-size confidence region when the covariance matrix has a structure. (English summary) **2001i:62070**
— (*with* Hirayama, Shin-ichi; Tanno, Masahiro) Robustness of multivariate two-stage procedure in simultaneous estimation. (*see* **2001g:62003**)
**Bishwal, J. P. N.** Bayes and sequential estimation in Hilbert space valued stochastic differential equations. (English summary) **2001i:62089**
**Chichagov, V. V.** On the completeness of Markovian plans of discrete-time random walks with sparse matrix of transition probabilities. (English summary) (*see* **2001k:00025**)
**Coad, D. S.** (*with* Govindarajulu, Z.) Corrected confidence intervals following a sequential adaptive clinical trial with binary responses. (English summary)
**Dmitrienko, A. A.** *see* **Vexler, A. A., 2001d:62080**
**Duggan, William** *see* **Mukhopadhyay, Nitis, 2001a:62019**
**Govindarajulu, Z.** *see* **Coad, D. S.**
**Hirayama, Shin-ichi** *see* **Aoshima, Makoto et al., (2001g:62003)**
**Hušková, Marie** *see* **Antoch, Jaromír, 2001f:62023**
**Kokoszka, Piotr** (*with* Leipus, Remigijus) Change-point estimation in ARCH models. (English summary) **2001c:62100**
**Lavielle, Marc** (*with* Moulines, Eric) Least-squares estimation of an unknown number of shifts in a time series. (English summary) **2001c:62102**
**Leipus, Remigijus** *see* **Kokoszka, Piotr, 2001c:62100**
**Moulines, Eric** *see* **Lavielle, Marc, 2001c:62102**
**Mukhopadhyay, Nitis** (*with* Duggan, William) On a two-stage procedure having second-order properties with applications. (English summary) **2001a:62019**
— *see also* **Aoshima, Makoto, 2001i:62070**
**Tanno, Masahiro** *see* **Aoshima, Makoto et al., (2001g:62003)**
**Vexler, A. A.** (*with* Dmitrienko, A. A.) Approximations to expected stopping times with applications to sequential estimation. (English summary) **2001d:62080**
**You, Jin Hong** Two-stage sampling estimators in the GMANOVA-MANOVA model. (Chinese. English and Chinese summaries)

## 62L15 Optimal stopping [see also 60G40, 91A60]

**Dmitrienko, A. A.** *see* **Vexler, A. A., 2001d:62080**

**Porosiński, Zdzisław** On optimal choosing of one of the three best objects. (English summary) (*see* **2001c:91004**)
**Vexler, A. A.** (*with* Dmitrienko, A. A.) Approximations to expected stopping times with applications to sequential estimation. (English summary) **2001d:62080**

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**Baryshnikov, Yu. M.** (*with* Gnedin, A. V.) Sequential selection of an increasing sequence from a multidimensional random sample. (English summary) **2001g:60092**
**Bruss, F. Thomas** Sum the odds to one and stop. (English summary) **2001i:60074**
— (*with* Paindaveine, Davy) Selecting a sequence of last successes in independent trials. (English summary) **2001h:60072**
**Glickman, Hagit** A best-choice problem with multiple selectors. (English summary) **2001f:60042**
**Gnedin, A. V.** Sequential selection of an increasing subsequence from a sample of random size. (English summary) **2001g:60093**
— *see also* **Baryshnikov, Yu. M., 2001g:60092**
**Hsiau, Shoou-Ren** (*with* Yang, Jiing-Ru) A natural variation of the standard secretary problem. (English summary)
**Irle, A.** (*with* Kubillus, O.; Paulsen, Volkert) An asymptotic expansion for the optimal stopping boundary in problems with non-linear costs of observation. (English summary) **2001m:60096**
**Jokiel-Rokita, Alicja** (*with* Magiera, Ryszard) Estimation with delayed observations for the multinomial distribution. (English summary) **2001f:62050**
**Kubillus, O.** *see* **Irle, A. et al., 2001m:60096**
**Kurano, Masami** *see* **Yoshida, Yuji et al., 2001a:60051**
**Liu, Wei[4]** (*with* Wang, Nan) Asymptotic expansions for the moments of a randomly stopped average: extension and applications of a result of Aras and Woodroofe. (English summary)
**Magiera, Ryszard** *see* **Jokiel-Rokita, Alicja, 2001f:62050**
**Mallik, Ashim K.** A Bayesian comparison of group sequential designs. (English summary) (*see* **2001m:62002**)
**Nakagami, Jun-Ichi** *see* **Yoshida, Yuji et al., 2001a:60051**
**Ohno, Katsuhisa** *see* **Tamaki, Mitsushi, 2001i:60077**
**Paindaveine, Davy** *see* **Bruss, F. Thomas, 2001h:60072**
**Paulsen, Volkert** *see* **Irle, A. et al., 2001m:60096**
**Peskir, Goran** Designing options given the risk: the optimal Skorokhod-embedding problem. (English summary) **2001e:60083**
— (*with* Shiryaev, Albert N.) Sequential testing problems for Poisson processes. (English summary) **2001m:62090**
**Porosiński, Zdzisław** (*with* Szajowski, Krzysztof) Random priority two-person full-information best choice problem with imperfect observation. (English summary) **2001g:60096**
— (*with* Szajowski, Krzysztof) Full-information best choice problem with random starting point. (English summary) **2001h:60073**
**Saint-Mont, U.** Prophet regions for i.i.d. random variables with simultaneous costs and discountings. (English summary) **2001b:60062**
**Sakaguchi, Minoru** (*with* Szajowski, Krzysztof) Mixed-type secretary problems on sequences of bivariate random variables. (English summary) **2001b:60063**
— A best-choice problem for the two streams of iid random variables. (English summary) **2001g:60097**
**Shiryaev, Albert N.** *see* **Peskir, Goran, 2001m:62090**
**Stefanov, Valeri T.** Markov renewal processes and exponential families. (English summary) **2001j:60158**
**Szajowski, Krzysztof** *see* **Sakaguchi, Minoru, 2001b:60063; Porosiński, Zdzisław, 2001g:60096** *and* **2001h:60073**
**Tamaki, Mitsushi** (*with* Ohno, Katsuhisa) On a generalization of the secretary problem with uncertain selection. (English summary) **2001i:60077**
**Tanaka, Teruo** The system of quasi-variational inequalities attached to the two-armed bandit problem. (English summary) **2001d:60043**
**Wang, Nan** *see* **Liu, Wei[4]**
**Wang, Xikui** A bandit process with delayed responses. (English summary) **2001g:62043**
**Yang, Jiing-Ru** *see* **Hsiau, Shoou-Ren**
**Yasuda, Masami** *see* **Yoshida, Yuji et al., 2001a:60051**
**Yoshida, Yuji** (*with* Yasuda, Masami; Nakagami, Jun-Ichi; Kurano, Masami) Optimal stopping problems in a stochastic and fuzzy system. (English summary) **2001a:60051**

## 62L20 Stochastic approximation

**Albeanu, Grigore** (*with* Ungureanu-David, Elena) Optimum moments of reliability control for IFR systems. (English summary)
**Benaïm, Michel** Dynamics of stochastic approximation algorithms. (English summary) **2001d:62081**
— Convergence with probability one of stochastic approximation algorithms whose average is cooperative. (English summary) **2001g:62046**
**Bharath, B.** (*with* Borkar, Vivek S.) Stochastic approximation algorithms: overview and recent trends. (English summary) **2001d:62082**
**Borkar, Vivek S.** (*with* Meyn, S. P.) The O.D.E. method for convergence of stochastic approximation and reinforcement learning. (English summary) **2001a:62105**
— *see also* **Bharath, B., 2001d:62082**
**Chabanyuk, Ya. M.** A discrete stochastic approximation procedure in the scheme of diffusion averaging. (Ukrainian. English and Russian summaries) **2001m:62093**
**Chen, Han Fu** (*with* Uosaki, Katsuji) Convergence analysis of dynamic stochastic approximation. (English summary) **2001g:62047**
— *see also* **Fang, Hai-Tao, 2001a:62106** *and* **Tang, Qian-Yu et al., 2001c:62086**
**Embrechts, Paul** (*with* Walk, Harro) Recursive estimation of distributional fix-points. (English summary) **2001c:62085**
**Fang, Hai-Tao** (*with* Chen, Han Fu) Stability and instability of limit points for stochastic approximation algorithms. (English summary) **2001a:62106**
**Gahbiche, Mouna** (*with* Pelletier, Mariane) On the estimation of the asymptotic covariance matrix for the averaged Robbins-Monro algorithm. (English and French summaries) **2001d:62083**
**Grieszbach, Gert** *see* **Möller, Eva et al.**
**Krasulina, T. P.** On the probability of a stochastic approximation algorithm not exceeding a desired threshold. (Russian. Russian summary)
**Le Breton, Alain** (*with* Novikov, An. A.) On stochastic approximation procedures with averaging. (Russian summary) **2001m:62094**
**L'Écuyer, Pierre** *see* **Tang, Qian-Yu et al., 2001c:62086**
**Mel'nikov, A. V.** *see* **Valkeila, È., 2001g:62048**
**Meyn, S. P.** *see* **Borkar, Vivek S., 2001a:62105**
**Möller, Eva** (*with* Grieszbach, Gert; Schack, Bärbel; Witte, Herbert) Statistical properties and control algorithms of recursive quantile estimators. (English summary)
**Novikov, An. A.** *see* **Le Breton, Alain, 2001m:62094**
**Pelletier, Mariane** Asymptotic almost sure efficiency of averaged stochastic algorithms. (English summary) **2001i:62088**
— *see also* **Gahbiche, Mouna, 2001d:62083**
**Schack, Bärbel** *see* **Möller, Eva et al.**
**Shao, Sai Lai** (*with* Yip, Percy P. C.) Rates of convergence of adaptive step-size of stochastic approximation algorithms. (English summary) **2001a:62107**
**Tang, Qian-Yu** (*with* L'Écuyer, Pierre; Chen, Han Fu) Central limit theorems for stochastic optimization algorithms using infinitesimal perturbation analysis. (English summary) **2001c:62086**
**Ungureanu-David, Elena** *see* **Albeanu, Grigore**
**Uosaki, Katsuji** *see* **Chen, Han Fu, 2001g:62047**
**Valkeila, È.** (*with* Mel'nikov, A. V.) Martingale models of stochastic approximation and their convergence. (Russian. Russian summary) **2001g:62048**
**Walk, Harro** *see* **Embrechts, Paul, 2001c:62085**
**Witte, Herbert** *see* **Möller, Eva et al.**
**Yin, Gang George** (*with* Yin, Kewen) Asymptotically optimal rate of convergence of smoothed stochastic recursive algorithms. (English summary) **2001e:62075**
**Yin, Kewen** *see* **Yin, Gang George, 2001e:62075**
**Yip, Percy P. C.** *see* **Shao, Sai Lai, 2001a:62107**

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**Belitser, Eduard** Recursive estimation of a drifted autoregressive parameter. (English summary) **2001f:62052**
**Bertsekas, Dimitri P.** (*with* Tsitsiklis, John N.) Gradient convergence in gradient methods with errors. (English summary) **2001e:90142**
**Birch, Jeffrey B.** *see* **Nottingham, Quinton J. et al.**
**Bodt, Barry A.** *see* **Nottingham, Quinton J. et al.**
**Del Moral, Pierre** (*with* Miclo, Laurent) Branching and interacting particle systems approximations of Feynman-Kac formulae with applications to non-linear filtering. (English summary) **2001g:60091**
**Delyon, Bernard** (*with* Lavielle, Marc; Moulines, Eric) Convergence of a stochastic approximation version of the EM algorithm. (English summary) **2001h:62031**
**Higle, Julia L.** (*with* Sen, Suvrajeet) Statistical approximations for stochastic linear programming problems. (English summary) **2001e:90050**
**Lavielle, Marc** *see* **Delyon, Bernard et al., 2001h:62031**
**Michel, Anthony N.** *see* **Radenkovic, Miloje S., 2001i:93117**
**Miclo, Laurent** *see* **Del Moral, Pierre, 2001g:60091**
**Moulines, Eric** *see* **Delyon, Bernard et al., 2001h:62031**
**Nemirovskii, Arkadii** *see* **Yuditskiĭ, A. B., 2001k:62059**
**Nottingham, Quinton J.** (*with* Birch, Jeffrey B.; Bodt, Barry A.) Local logistic regression: an application to army penetration data. (English summary)
**O'Quigley, John** *see* **Shen, Larry Z., 2001h:62146**
**Radenkovic, Miloje S.** (*with* Michel, Anthony N.) Almost sure rate of convergence of the parameter estimates in stochastic approximation algorithm. (English summary) **2001i:93117**
**Sen, Suvrajeet** *see* **Higle, Julia L., 2001e:90050**
**Shen, Larry Z.** (*with* O'Quigley, John) Using a one-parameter model to sequentially estimate the root of a regression function. (English summary) **2001h:62146**
**Spall, James C.** Adaptive stochastic approximation by the simultaneous perturbation method. (English summary) **2001m:93121**
**Sun, Wan Long** A general way for obtaining confidence limits. (Chinese. English and Chinese summaries)
**Tsitsiklis, John N.** *see* **Bertsekas, Dimitri P., 2001e:90142**
**Yuditskiĭ, A. B.** (*with* Nemirovskii, Arkadii) Functional aggregation for nonparametric regression. (English summary) **2001k:62059**

## 62L99 None of the above, but in this section

**Antonova, E. S.** (*with* Lumel'skiĭ, Ya. P.) Probability characteristics of regulations of sports competitions. (*see* **2001k:00025**)
**Datta, Sujay** (*with* Mukhopadhyay, Nitis) Nonparametric sequential procedures for selecting the largest center of symmetry and some associated second-order properties. (English summary)
**Leu, Cheng-Shiun** (*with* Levin, Bruce) On the probability of correct selection in the Levin-Robbins sequential elimination procedure. (English summary) **2001a:62108**
**Levin, Bruce** *see* **Leu, Cheng-Shiun, 2001a:62108**
**Lumel'skiĭ, Ya. P.** *see* **Antonova, E. S., (2001k:00025)**
**Mukhopadhyay, Nitis** *see* **Datta, Sujay**

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**Kolnogorov, A. V.** On optimal a priori learning time in the "two-arm bandit" problem. (Russian. Russian summary) **2001j:68102**
**Preater, J.** Sequential selection with a better-than-average rule. (English summary) **2001b:60078**
**Yao, David D.** (*with* Zheng, Shaohui) Optimality of sequential quality control via stochastic orders. (*see* **2001d:60003**)
**Zheng, Shaohui** *see* **Yao, David D., (2001d:60003)**

## 62Mxx Inference from stochastic processes

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**(Aries, A. B.)** *see* **Liptser, Robert Sh., 2001k:60001b**

**Liptser, Robert Sh.** (*with* Shiryaev, Albert N.) ★ Statistics of random processes. II. (English summary) **2001k:60001b**

**Shiryaev, Albert N.** *see* **Liptser, Robert Sh., 2001k:60001b**

## 62M02 Markov processes: hypothesis testing

**Campillo, Fabien** (*with* Kutoyants, Yurii; Le Gland, François) Small noise asymptotics of the GLR test for off-line change detection in misspecified diffusion processes. (English summary) **2001e:62076**

**Chan, Kung Sik** *see* **Tsai, Henghsiu**

**Corradi, Valentina** (*with* White, Halbert) Specification tests for the variance of a diffusion. (English summary) **2001b:62067**

**Kanishauskas, V.** Asymptotically minimax testing of $r > 2$ simple hypotheses. (English and Lithuanian summaries) **2001m:62095**

**Kutoyants, Yurii** *see* **Campillo, Fabien et al., 2001e:62076**

**Le Gland, François** *see* **Campillo, Fabien et al., 2001e:62076**

**Singh, Baikunth Nath** Efficiencies of certain test statistics against two-state Markov chain. (English and Hindi summaries)

**Tsai, Henghsiu** (*with* Chan, Kung Sik) Testing for nonlinearity with partially observed time series. (English summary)

**White, Halbert** *see* **Corradi, Valentina, 2001b:62067**

Items with secondary classifications in 62M02

**Beibel, M.** Sequential detection of signals with known shape and unknown magnitude. (English summary) **2001f:62048**

**Domowitz, Ian** (*with* El-Gamal, Mahmoud A.) A consistent nonparametric test of ergodicity for time series with applications. (English summary)

**El-Gamal, Mahmoud A.** *see* **Domowitz, Ian**

**Lepskiĭ, O. V.** (*with* Tsybakov, A. B.) Asymptotically exact nonparametric hypothesis testing in sup-norm and at a fixed point. (English summary) **2001e:62044**

**Lingham, Rama T.** *see* **Sivaganesan, Siva, 2001c:62034**

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**Liu, Aiyi** Maximum likelihood estimate following sequential probability ratio tests. (English summary) **2001d:62078**

**Löcherbach, Eva** Likelihood ratio processes and asymptotic statistics for systems of interacting diffusions with branching and immigration. (English summary) **2001j:60143**

**Menéndez, María Luisa** (*with* Morales, Domingo; Pardo, Leandro; Vajda, Igor) Inference about stationary distributions of Markov chains based on divergences with observed frequencies. (English summary) **2001j:62101**

**Morales, Domingo** (*with* Pardo, Leandro; Pardo, Maria del Carmen; Vajda, Igor) Extension of the Wald statistic to models with dependent observations. (English summary)

— *see also* **Menéndez, María Luisa et al., 2001j:62101**

**Mordecki, Ernesto** Asymptotic mixed normality and Hellinger processes. (English summary) **2001d:62014**

**Pardo, Leandro** *see* **Menéndez, María Luisa et al., 2001j:62101** *and* **Morales, Domingo et al.**

**Pardo, María del Carmen** *see* **Morales, Domingo et al.**

**Sivaganesan, Siva** (*with* Lingham, Rama T.) Bayes factors for a test about the drift of the Brownian motion under noninformative priors. (English summary) **2001c:62034**

**Tsybakov, A. B.** *see* **Lepskiĭ, O. V., 2001e:62044**

**Vajda, Igor** *see* **Menéndez, María Luisa et al., 2001j:62101** *and* **Morales, Domingo et al.**

## 62M05 Markov processes: estimation

**Ageel, Mohammad I.** Asymptotic distribution of MLE's of the parameters for a diffusion model with catastrophes. (English summary)

**Asmussen, Søren** Matrix-analytic models and their analysis. (English summary) **2001d:62084**

**Bishwal, J. P. N.** Bayes and sequential estimation in Hilbert space valued stochastic differential equations. (English summary) **2001i:62089**

— Sharp Berry-Esseen bound for the maximum likelihood estimator in the Ornstein-Uhlenbeck process. (English summary) **2001c:62087**

**Bondarĕv, B. V.** *see* **Simogin, A. A. et al.**

**Brockwell, P. J.** Lévy-driven CARMA processes. (English summary)

**Bühlmann, Peter** Model selection for variable length Markov chains and tuning the context algorithm. (English summary) **2001j:62099**

**Butler, Ronald W.** (*with* Huzurbazar, Aparna V.) Bayesian prediction of waiting times in stochastic models. (English and French summaries) **2001h:62151**

**Çağlar, Mine** Maximum likelihood estimator for the drift of a Brownian flow. (English summary) **2001b:62068**

**Chichagov, V. V.** Unbiased estimation of the matrix of transition probabilities of a homogeneous Markov chain by a sufficient estimator. (English summary) (*see* **2001j:62008**)

**Deshmukh, S. R.** Markov sampling. (English summary) **2001h:62152**

— *see also* **Kale, Mohan, 2001k:62097**

**Dzundza, A. I.** *see* **Simogin, A. A. et al.**

**Francq, Christian** (*with* Zakoïan, Jean-Michel) Stationnarité des modèles ARMA à changement de régime markovien. (English and French summaries) [Stationarity of Markov-switching ARMA models] **2001d:62085**

**Fu, James C.** (*with* Lou, W. Y. Wendy) On the exact distribution of SECON and its application. (English summary) **2001f:62051**

**Greenshtein, Eitan** (*with* Ritov, Ya'acov) Sampling from a stationary process and detecting a change in the mean of a stationary distribution. (English summary) **2001h:62153**

**Greenwood, Priscilla E.** (*with* McKeague, Ian W.; Wefelmeyer, Wolfgang) Information bounds for Gibbs samplers. (English summary) **2001c:62088**

**Gutiérrez-Peña, Eduardo** *see* **Mendoza Ramírez, Manuel**

**Hallin, Marc** (*with* Koell, Christophe; Werker, Bas J. M.) Optimal inference for discretely observed semiparametric Ornstein-Uhlenbeck processes. (English summary) **2001m:62096**

**Höpfner, R.** (*with* Löcherbach, Eva) On local asymptotic normality for birth and death on a flow. (English summary) **2001a:62109**

**Huebner, Marianne** (*with* Lototskiĭ, S. V.) Asymptotic analysis of the sieve estimator for a class of parabolic SPDEs. (English summary) **2001b:62069**

**Huzurbazar, Aparna V.** *see* **Butler, Ronald W., 2001h:62151**

**Jacod, Jean** Non-parametric kernel estimation of the coefficient of a diffusion. (English summary) **2001c:62089**

**Kale, Mohan** (*with* Deshmukh, S. R.) Estimation in continuous state-space branching processes. (English summary) **2001k:62097**

**Kessler, Mathieu** Simple and explicit estimating functions for a discretely observed diffusion process. (English summary) **2001c:62090**

**Koell, Christophe** *see* **Hallin, Marc et al., 2001m:62096**

**Kolkiewicz, Adam W.** *see* **McLeish, Don L., (2001m:62003)**

**Kukush, A. G.** (*with* Mishura, Yu. S.) Asymptotic properties of an estimator for the intensity of a nonhomogeneous Poisson process in a combined model. (Russian. Russian summary) **2001g:62049**

**Kulperger, R. J.** SDE estimation: effects of misspecified diffusion functions. (English summary) (*see* **2001b:60006**)

**Kutoyants, Yurii** On parameter estimation for switching ergodic diffusion processes. (English and French summaries) **2001c:62091**

**Lababidi, S.** Nonparametric estimation of some functional with small noise diffusion processes. (English summary) **2001d:62086**

**Levina, T. I.** (*with* Matsevich, D. A.; Sin'kevich, D. V.) On the first two moments of the error in a statistical model for estimating transition probabilities of a homogeneous Markov chain. (Russian. English and Russian summaries) **2001k:62098**

**Löcherbach, Eva** *see* **Höpfner, R., 2001a:62109**

**Lototskiĭ, S. V.** *see* **Huebner, Marianne, 2001b:62069**

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**Maâouia, Faïza** (*with* Touati, Abderrahmen) Identification of multitype branching processes. (English and French summaries) **2001j:62100**

**Maĭboroda, R. Ê.** Statistics of sudden death. (Ukrainian. Ukrainian summary)

**Matsevich, D. A.** *see* **Levina, T. I. et al., 2001k:62098**

**McKeague, Ian W.** *see* **Greenwood, Priscilla E. et al., 2001c:62088**

**McLeish, Don L.** (*with* Kolkiewicz, Adam W.) Fitting diffusion models in finance. (English summary) (*see* **2001m:62003**)

**Mendoza Ramírez, Manuel** (*with* Gutiérrez-Peña, Eduardo) Bayesian conjugate analysis of the Galton-Watson process. (English summary)

**Menéndez, María Luisa** (*with* Morales, Domingo; Pardo, Leandro; Vajda, Igor) Inference about stationary distributions of Markov chains based on divergences with observed frequencies. (English summary) **2001j:62101**

**Mishura, Yu. S.** *see* **Kukush, A. G., 2001g:62049**

**Morales, Domingo** *see* **Menéndez, María Luisa et al., 2001j:62101**

**Pardo, Leandro** *see* **Menéndez, María Luisa et al., 2001j:62101**

**Prakasa Rao, B. L. S.** Estimation for some stochastic partial differential equations based on discrete observations. (English summary)

— Bayes estimation for some stochastic partial differential equations. (English summary) **2001k:62099**

**Pritchard, Geoffrey** (*with* Scott, David J.) Empirical convergence rates for continuous-time Markov chains. (English summary) **2001m:62097**

**Ritov, Ya'acov** *see* **Greenshtein, Eitan, 2001h:62153**

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**Simogin, A. A.** (*with* Bondarĕv, B. V.; Dzundza, A. I.) An estimate for the unknown parameter in the Cauchy problem for a first-order partial differential equation under small Gaussian perturbations. (Russian. English and Ukrainian summaries)

**Sin'kevich, D. V.** *see* **Levina, T. I. et al., 2001k:62098**

**Sørensen, Michael** Estimating functions for discretely observed diffusions: a review. (English summary) (*see* **2001m:62003**)

**Takahashi, Akihiko** (*with* Sato, Seisho) A Monte Carlo filtering approach for estimating the term structure of interest rates. (English summary)

**Touati, Abderrahmen** *see* **Maâouia, Faïza, 2001j:62100**

**Vajda, Igor** *see* **Menéndez, María Luisa et al., 2001j:62101**

**Vladeva, Dimitrinka** Estimation of drift parameter of linear stochastic differential equation. (English summary) (*see* **2001c:00014**)

**Volna, A. A.** (*with* Zhigallo, O. O.) Estimation of some functionals of partially observed Markov processes. (Ukrainian. Ukrainian summary)

**Wefelmeyer, Wolfgang** *see* **Greenwood, Priscilla E. et al., 2001c:62088**

**Werker, Bas J. M.** *see* **Hallin, Marc et al., 2001m:62096**

**Zakoïan, Jean-Michel** *see* **Francq, Christian, 2001d:62085**

**Zhigallo, O. O.** *see* **Volna, A. A.**

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**Basso, Antonella** (*with* Ellero, Andrea; Pianca, Paolo) The jump-diffusion return model: maximum likelihood estimation and applications to the Italian market. (English summary)

**Brown, Patrick E.** (*with* Kåresen, Kjetil F.; Roberts, Gareth O.; Tonellato, Stefano) Blur-generated non-separable space-time models. (English summary) **2001h:62175**

**Bühlmann, Peter** Efficient and adaptive post-model-selection estimators. (English summary) **2001i:62026**

**Chabanyuk, Ya. M.** A discrete stochastic approximation procedure in the scheme of diffusion averaging. (Ukrainian. English and Russian summaries) **2001m:62093**

**Chan, Kung Sik** *see* **Tsai, Henghsiu, 2001e:62081**

**Commenges, D.** Multi-state models in epidemiology. (English summary) **2001b:62080**

**Drabik, E.** (*with* Stettner, Łukasz) On adaptive control of Markov chains using nonparametric estimation. (English summary) **2001h:93099**
**Ellero, Andrea** *see* **Basso, Antonella et al.**
**Gámiz-Pérez, M. Luz** *see* **Pérez-Ocón, Rafael et al.**
**Gibson, Gavin J.** (*with* Renshaw, Eric) Inference for immigration-death processes with single and paired immigrants. (English summary)
**Gloter, Arnaud** Estimation du coefficient de diffusion de la volatilité d'un modèle à volatilité stochastique. (English and French summaries) [Estimation of the volatility diffusion coefficient for a stochastic volatility model] **2001a:91023**
**Helmes, Kurt** (*with* Srinivasan, Cidambi) A linear mini-max estimator for the case of a quartic loss function. (English summary) **2001m:62009**
**Käresen, Kjetil F.** *see* **Brown, Patrick E. et al., 2001h:62175**
**Pérez-Ocón, Rafael** (*with* Ruiz-Castro, Juan Eloy; Gámiz-Pérez, M. Luz) Markov models with lognormal transition rates in the analysis of survival times. (English summary)
**Pianca, Paolo** *see* **Basso, Antonella et al.**
**Renshaw, Eric** *see* **Gibson, Gavin J.**
**Roberts, Gareth O.** *see* **Brown, Patrick E. et al., 2001h:62175**
**Ruiz-Castro, Juan Eloy** *see* **Pérez-Ocón, Rafael et al.**
**Senoussi, Rachid** Uniform iterated logarithm laws for martingales and their application to functional estimation in controlled Markov chains. (English and French summaries) **2001h:60052**
**Shamsuddinov, B. R.** On the consistency of a kernel estimator of the distribution density of the sojourn time in a fixed state for semi-Markov processes. (*see* **2001k:00025**)
**Srinivasan, Cidambi** *see* **Helmes, Kurt, 2001m:62009**
**Sriram, T. N.** (*with* Vidyashankar, A. N.) Sequential point estimation for branching processes. I. Subcritical case. (English summary) **2001h:62149**
**Stettner, Łukasz** *see* **Drabik, E., 2001h:93099**
**Stine, Robert A.** *see* **Zhang, Jing, 2001m:62108**
**Tonellato, Stefano** *see* **Brown, Patrick E. et al., 2001h:62175**
**Tsai, Henghsiu** (*with* Chan, Kung Sik) A note on the covariance structure of a continuous-time ARMA process. (English summary) **2001e:62081**
**Vidyashankar, A. N.** *see* **Sriram, T. N., 2001h:62149**
**Wefelmeyer, Wolfgang** Quasi-likelihood regression models for Markov chains. (English summary) (*see* **2001m:62003**)
**Zhang, Jing** (*with* Stine, Robert A.) Autocovariance structure of Markov regime switching models and model selection. (English summary) **2001m:62108**

## 62M07 Non-Markovian processes: hypothesis testing

**Andrew, Rex K.** (*with* Kirlin, R. Lynn) An equality test for variances of two complex correlated Gaussian processes. (English summary)
**Bhattacharya, Debasis** *see* **Roussas, George G., 2001k:62100**
**Demin, N. S.** (*with* Rozhkova, Svetlana; Rozhkova, O. V.) Likelihood ratio determination for stochastic processes recognition problem with respect to the set of continuous and discrete memory observations. (English and Lithuanian summaries)
**Hu, Xiaomi** Tests for monotonic intensity in a Poisson process. (English summary) **2001h:62154**
**Kirlin, R. Lynn** *see* **Andrew, Rex K.**
**(Kotov, V. N.)** *see* **Lin'kov, Yu. N., 2001j:62102**
**Lin'kov, Yu. N.** ★ Asymptotic statistical methods for stochastic processes. (English summary) **2001j:62102**
**Neumann, Michael H.** (*with* Paparoditis, Efstathios) On bootstrapping $L_2$-type statistics in density testing. (English summary) **2001j:62103**
**Paparoditis, Efstathios** *see* **Neumann, Michael H., 2001j:62103**
**Roussas, George G.** (*with* Bhattacharya, Debasis) Asymptotic behavior of the log-likelihood function in stochastic processes when based on a random number of random variables. (English summary) **2001k:62100**
**Rozhkova, O. V.** *see* **Demin, N. S. et al.**
**Rozhkova, Svetlana** *see* **Demin, N. S. et al.**

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**Afanas'eva, L. G.** (*with* Radchenko, Peter) On homogeneity of two semi-Markov samples. (English summary) (*see* **2001a:60002**)
**Cook, Richard J.** *see* **Ng, Edmund T. M., 2001a:62110**
**Deshpande, Jayant V.** (*with* Mukhopadhyay, Madhuchhanda; Naik Nimbalkar, U. V.) Tests for equality of intensities of failures of a repairable system under two competing risks. (English summary) **2001i:62108**
**Kozachenko, Yu. V.** (*with* Moklyachuk, Oksana) Large deviation probabilities for square-Gaussian stochastic processes. (English summary) **2001k:60037**
**Kuhl, Michael E.** (*with* Wilson, James R.) Modeling and simulating Poisson processes having trends or nontrigonometric cyclic effects. (English summary)
**Liese, Friedrich** (*with* Lorz, Udo) Contiguity and LAN-property of sequences of Poisson processes. (English summary) **2001a:62063**
**Lorz, Udo** *see* **Liese, Friedrich, 2001a:62063**
**Moklyachuk, Oksana** *see* **Kozachenko, Yu. V., 2001k:60037**
**Morales, Domingo** (*with* Pardo, Leandro; Pardo, María del Carmen; Vajda, Igor) Extension of the Wald statistic to models with dependent observations. (English summary)
**Mukhopadhyay, Madhuchhanda** *see* **Deshpande, Jayant V. et al., 2001i:62108**
**Naik Nimbalkar, U. V.** *see* **Deshpande, Jayant V. et al., 2001i:62108**
**Ng, Edmund T. M.** (*with* Cook, Richard J.) Robust inference for bivariate point processes. (English and French summaries) **2001a:62110**
**Pardo, Leandro** *see* **Morales, Domingo et al.**
**Pardo, María del Carmen** *see* **Morales, Domingo et al.**
**Radchenko, Peter** *see* **Afanas'eva, L. G., (2001a:60002)**
**Stus', O. V.** A criterion for testing hypotheses on the form of covariance functions of a Gaussian vector-valued stationary random process on a segment. (Ukrainian. Ukrainian summary)
**Vajda, Igor** *see* **Morales, Domingo et al.**
**Wilson, James R.** *see* **Kuhl, Michael E.**

## 62M09 Non-Markovian processes: estimation

**Adekola, O. A.** Asymptotic posterior normality for stochastic processes in a multi-parameter case. (English summary)
**Basawa, Ishwar V.** (*with* Lund, Robert; Bhat, U. Narayan) Estimating function methods of inference for queueing parameters. (English summary) (*see* **2001m:62003**)
**Bhat, U. Narayan** *see* **Basawa, Ishwar V. et al., (2001m:62003)**
**Boussama, Farid** Normalité asymptotique de l'estimateur du pseudo-maximum de vraisemblance d'un modèle GARCH. (English and French summaries) [Asymptotic normality for the quasi-maximum likelihood estimator of a GARCH model] **2001d:62087**
**Chong, Tai-leung Terence** Estimating the differencing parameter via the partial autocorrelation function. (English summary)
**Cook, Richard J.** *see* **Ng, Edmund T. M., 2001a:62110**
**Craiu, Mariana** Bayes estimators in semi-Markov processes. (English and Romanian summaries)
**Dzhaparidze, Kacha** (*with* Spreij, P. J. C.) On optimality of regular projective estimators for semimartingale models. II. Asymptotically linear estimators. (English summary) **2001e:62077**
**Gassiat, Elisabeth** (*with* Gautherat, E.) Speed of convergence for the blind deconvolution of a linear system with discrete random input. (English summary) **2001d:62088**
**Gautherat, E.** *see* **Gassiat, Elisabeth, 2001d:62088**
**Helmers, Roelof** (*with* Zitikis, Ričardas) On estimation of Poisson intensity functions. (English summary) **2001j:62104**
**Krejčíř, Pavel** A maximum likelihood estimator of an inhomogeneous Poisson point process intensity using beta splines. (English summary)
**Kuhl, Michael E.** (*with* Wilson, James R.) Least squares estimation of nonhomogeneous Poisson processes. (English summary)
**Kutoyants, Yurii** (*with* Liese, Friedrich) Estimation of linear functionals of Poisson processes. (English summary) **2001i:62090**
**Liese, Friedrich** *see* **Kutoyants, Yurii, 2001i:62090**
**Lund, Robert** *see* **Basawa, Ishwar V. et al., (2001m:62003)**
**McClean, S. I.** (*with* Montgomery, Erin) Estimation for semi-Markov manpower models in a stochastic environment. (English summary) (*see* **2001a:60002**)
**Monsan, V.** (*with* N'zi, Modeste) Minimum distance estimator for a hyperbolic stochastic partial differential equation. (English summary) **2001d:62089**
**Montgomery, Erin** *see* **McClean, S. I., (2001a:60002)**
**Ng, Edmund T. M.** (*with* Cook, Richard J.) Robust inference for bivariate point processes. (English and French summaries) **2001a:62110**
**N'zi, Modeste** *see* **Monsan, V., 2001d:62089**
**Ovchinnikova, T. M.** (*with* Trifonov, A. P.) Detection and estimation of the instant of change of unknown intensity of a Poisson flow. I. (Russian. Russian summary)
— (*with* Trifonov, A. P.) Detection and estimation of the instant of change of unknown intensity of a Poisson flow. II. (Russian. Russian summary)
**Peng, Liang** Semi-parametric estimation of long-range dependence index in infinite variance time series. (English summary) **2001k:62101**
**Spreij, P. J. C.** *see* **Dzhaparidze, Kacha, 2001e:62077**
**Szalay, Alexander** *see* **Szapudi, István**
**Szapudi, István** (*with* Szalay, Alexander) The variance of a new class of $N$-point correlation estimators in Poisson and binomial point processes. (English summary)
**Trifonov, A. P.** *see* **Ovchinnikova, T. M.**
**Wilson, James R.** *see* **Kuhl, Michael E.**
**Zitikis, Ričardas** *see* **Helmers, Roelof, 2001j:62104**

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**Adjengue, Luc D.** (*with* Moore, Marc) Deux méthodes d'estimation pour les paramètres de processus moyenne mobile spatiaux. (English and French summaries) [Two methods for estimating the parameters of spatial moving average processes] **2001k:62111**
**Alekseev, V. G.** Nonparametric estimates for the intensity of a nonhomogeneous Poisson process. (Russian. English and Uzbek summaries) **2001j:62039**
**Asmussen, Søren** Matrix-analytic models and their analysis. (English summary) **2001d:62084**
**Blanke, D.** (*with* Bosq, D.) A family of minimax rates for density estimators in continuous time. (English summary) **2001i:62041**
**Bosq, D.** ★ Linear processes in function spaces. (English summary) **2001k:60054**
— *see also* **Blanke, D., 2001i:62041**
**Cao, Jin** (*with* Worsley, Keith J.) The detection of local shape changes via the geometry of Hotelling's $T^2$ fields. (English summary) **2001g:60121**
**Chang, I-Shou** (*with* Hsiung, Chao A.; Wu, Su-Mei) Estimation in a proportional hazard model for semi-Markov counting process. (English summary) **2001j:62121**
**Chang, Wei-Bin** (*with* Gubner, John A.) Poisson limits and nonparametric estimation for pairwise interaction point processes. (English summary) **2001a:62043**
**Commenges, D.** Multi-state models in epidemiology. (English summary) **2001b:62080**
**Dauxois, Jean-Yves** Inférence par les martingales pour des processus ponctuels à compensateur discontinu. (English and French summaries) [Martingale inference for point processes with discontinuous compensator] **2001i:62105**
**Davis, Richard Alan** (*with* Dunsmuir, William T. M.; Wang, Ying$^3$) On autocorrelation in a Poisson regression model. (English summary) **2001h:62126**
**Dunsmuir, William T. M.** *see* **Davis, Richard Alan et al., 2001h:62126**
**Greenwood, Priscilla E.** (*with* Wefelmeyer, Wolfgang) Partial likelihood and estimating equations. (English summary) (*see* **2001m:62003**)
**Grégoire, Gérard** (*with* Nembé, Jocelyn) Convergence rates for the minimum complexity estimator of counting process intensities. (English summary) **2001e:62035**
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## 62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

**Dawid, A. Philip** *see* **Skouras, Kostas, 2001g:62054**
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**Gerashchenko, I. P.** Prediction methods in regression and adaptive models in the analysis of dynamic series. (Russian. English summary) (*see* **2001a:00018**)
**He, Can Zhi** *see* **Yu, Sheng Hua**
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**Ibragimov, I. A.** On the extrapolation of entire functions observed under Gaussian white noise. (Russian. English and Ukrainian summaries) **2001m:62110**
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**Cogley, Timothy** Alternative definitions of the business cycle and their implications for business cycle models. A reply to T. M. Pedersen: "The Hodrick-Prescott filter, the Slutzky effect, and the distortionary effect of filters" [J. Econom. Dynam. Control **25** (2001), no. 8, 1081–1101; 1 834 685].
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## 62M30 Spatial processes

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**Brown, Patrick E.** (*with* Kåresen, Kjetil F.; Roberts, Gareth O.; Tonellato, Stefano) Blur-generated non-separable space-time models. (English summary) **2001h:62175**
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**Jensen, Eva Bjørn** (*with* Nielsen, Linda Stougaard) Inhomogeneous Markov point processes by transformation. (English summary) **2001k:62112**
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**Diggle, Peter J.** (*with* Mateu, Jorge; Clough, Helen E.) A comparison between parametric and non-parametric approaches to the analysis of replicated spatial point patterns. (English summary) **2001e:60020**
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**Gubner, John A.** *see* **Chang, Wei-Bin, 2001a:62043**
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**Krejčíř, Pavel** *see* **Beneš, Viktor et al., 2001e:62022**
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**Lavielle, Marc** *see* **Delyon, Bernard et al., 2001h:62031**
**Lawson, Andrew B.** *see* **Cressie, Noel, 2001e:60095**
**Lele, Subhash** Estimating functions for semivariogram estimation. (English summary) (*see* **2001m:62003**)
**Li, Xin[3]** *see* **Bhattacharyya, B. B. et al., 2001c:62094**
**van Lieshout, Marie-Colette N. M.** ★ Markov point processes and their applications. (English summary) **2001k:60070**
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**Martínez i Navarro, Ferran** *see* **Ferrándiz, Juan et al.**
**Mase, Shigeru** Marked Gibbs processes and asymptotic normality of maximum pseudo-likelihood estimators. (English summary) **2001a:60057**
**Mateu, Jorge** *see* **Diggle, Peter J. et al., 2001e:60020**
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**Vere-Jones, David** On the fractal dimensions of point patterns. (English summary) **2001g:60116**
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## 62M40 Random fields; image analysis

**Angulo, J. M.** *see* **Anh, Vo et al., 2001f:62062**
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**Butler, Neil A.** A frequency domain algorithm for maximum likelihood estimation of Gaussian fields. (English summary)
**Chan, Grace** (*with* Wood, Andrew T. A.) Increment-based estimators of fractal dimension for two-dimensional surface data. (English summary) **2001c:62110**
**Choi, ByoungSeon** On the asymptotic distributions of mean, autocovariance, autocorrelation, crosscovariance and impulse response estimators of a stationary multidimensional random field. (English summary) **2001e:62083**
**Gibbs, Alison L.** Bounding the convergence time of the Gibbs sampler in Bayesian image restoration. (English summary) **2001k:62113**
**Häggström, Olle** (*with* Nelander, Karin) On exact simulation of Markov random fields using coupling from the past. (English summary) **2001c:62111**
**Huang, Ke Ming[1]** The consistency of nonlinear least modulus estimation for stochastic fields. (Chinese. English and Chinese summaries)
**Jensen, Jens Ledet** Efficiency of the pseudo-likelihood estimate in a one-dimensional lattice gas. (English summary) (*see* **2001m:62003**)
**Kedem, Benjamin** *see* **Kozintsev, Boris**
**Koval'chuk, T. V.** Asymptotic properties of estimates for the parameters of the correlation function of random fields. (Ukrainian. English summary)
**Kozintsev, Boris** (*with* Kedem, Benjamin) Generation of "similar" images from a given discrete image. (English summary)
**Lee, Thomas C. M.** A minimum description length-based image segmentation procedure, and its comparison with a cross-validation-based segmentation procedure. (English summary)
**Leonenko, Nikolai N.** (*with* Woyczyński, Wojbor A.) Parameter identification for singular random fields arising in Burgers' turbulence. (English summary) **2001g:62055**
**Mohapl, Jaroslav** On estimation in random fields generated by linear stochastic partial differential equations. (English summary) **2001k:62114**

**Nelander, Karin** *see* **Häggström, Olle, 2001c:62111**
**Ruiz-Medina, M. D.** *see* **Anh, Vo et al., 2001f:62062**
**Sabre, Rachid** Estimation of the constant measurement error of a stable random field. (English summary)
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**Woyczyński, Wojbor A.** *see* **Leonenko, Nikolai N., 2001g:62055**

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**Anh, Vo** (*with* Leonenko, Nikolai N.) Non-Gaussian scenarios for the heat equation with singular initial conditions. (English summary) **2001c:60083**
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**—** *see also* **Kleptsyna, M. L. et al., 2001k:60079**
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**Brown, Patrick E.** (*with* Kåresen, Kjetil F.; Roberts, Gareth O.; Tonellato, Stefano) Blur-generated non-separable space-time models. (English summary) **2001h:62175**
**Chiu, Sung Nok** *see* **Molchanov, Ilya S., 2001i:62104**
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**De Iaco, S.** (*with* Myers, D. E.; Posa, D.) Space-time analysis using a general product-sum model. (English summary) **2001m:62111**
**Dencker, Peter²** A limit theorem for empirical processes from planned experiments. (English summary) **2001g:62031**
**Dryden, Ian L.** *see* **Kent, John T. et al., 2001h:62107** *and* **Taylor, Charles C. et al., 2001m:62114**
**Fahrmeir, Ludwig** (*with* Lang, Stefan²) Bayesian semiparametric regression analysis of multicategorical time-space data. (English summary)
**Farnoosh, Rahman** *see* **Taylor, Charles C. et al., 2001m:62114**
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**Gokhale, Arun M.** *see* **Beneš, Viktor, 2001f:60013**
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**Guyon, Xavier** (*with* Yao, Jian-Feng) On the underfitting and overfitting sets of models chosen by order selection criteria. (English summary) **2001a:62027**
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**Kent, John T.** (*with* Dryden, Ian L.; Anderson, Catherine R.) Using circulant symmetry to model featureless objects. (English summary) **2001h:62107**
**Khalfkulov, S. Ĭ.** *see* **Yadrenko, M. Ĭ., 2001f:60054**
**Kleptsyna, M. L.** (*with* Kloeden, Peter E.; Anh, Vo) Existence and uniqueness theorems for stochastic differential equations with fractal Brownian motion. (Russian. Russian summary) **2001k:60079**
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**Lang, Stefan²** *see* **Fahrmeir, Ludwig**
**Lavielle, Marc** *see* **Ludeña, Carenne, 2001a:62028**
**Leonenko, Nikolai N.** (*with* Moldavs'ka, E. M.) Minimal contrast estimators for the parameter of the spectral density of random fields in the continuous case. (Ukrainian. Ukrainian summary) **2001f:62055**
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**Ludeña, Carenne** (*with* Lavielle, Marc) The Whittle estimator for strongly dependent stationary Gaussian fields. (English summary) **2001a:62028**
**Marroquin, Jose Luis** Some extensions of the spring model for image processing. (English summary) (*see* **2001f:93007**)
**Molchanov, Ilya S.** (*with* Chiu, Sung Nok) Smoothing techniques and estimation methods for nonstationary Boolean models with applications to coverage processes. (English summary) **2001i:62104**
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**Rougier, Jonathan** (*with* Goldstein, Michael) A Bayesian analysis of fluid flow in pipelines. (English summary)
**Stoffer, David S.** (*with* Tyler, David E.; Wendt, David A.) The spectral envelope and its applications. (English summary)
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**Zalesskiĭ, B. A.** *see* **Götze, Friedrich, 2001c:62039**

## 62M45 Neural nets and related approaches

**Lai, Tze Leung** (*with* Wong, Samuel Po-Shing) Learning and forecasting with stochastic neural networks. (English summary) (*see* **2001k:62004**)
**Wong, Samuel Po-Shing** *see* **Lai, Tze Leung, (2001k:62004)**

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**Jin, Ke Wei** *see* **Xie, Mei Ping et al.**
**(Kay, J. W.)** *see* **Statistics and neural networks, 2001e:62006**
**(Titterington, D. M.)** *see* **Statistics and neural networks, 2001e:62006**
**Xie, Mei Ping** (*with* Jin, Ke Wei; Zhuang, Xiu Long) The approximation and predication of non-linear time series by using wavelet neural networks. (Chinese. English and Chinese summaries)
**Zhuang, Xiu Long** *see* **Xie, Mei Ping et al.**

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**Statistics and neural networks** ★ Statistics and neural networks. **2001e:62006**

## 62M99 None of the above, but in this section

**Dhar, Sunil K.** (*with* Jiang, Xulun) Use of binary sequence of order $k$. (English summary)
**Jiang, Xulun** *see* **Dhar, Sunil K.**
**Merhav, Neri** *see* **Weissman, Tsachy et al.**
**Somekh-Baruch, Anelia** *see* **Weissman, Tsachy et al.**
**Weissman, Tsachy** (*with* Merhav, Neri; Somekh-Baruch, Anelia) Twofold universal prediction schemes for achieving the finite-state predictability of a noisy individual binary sequence. (English summary)

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**Andersson, Håkan** (*with* Britton, Tom) ★ Stochastic epidemic models and their statistical analysis. (English summary) **2001j:92052**
**Boente, Graciela** (*with* Fraiman, Ricardo) Kernel-based functional principal components. (English summary) **2001c:62052**
**Britton, Tom** *see* **Andersson, Håkan, 2001j:92052**
**Conti, Pier Luigi** Large sample Bayesian analysis for Geo/$G$/1 discrete-time queueing models. (English summary) **2001f:62024**
**Durairajan, T. M.** *see* **William, Martin L.**
**Dzhaparidze, Kacha** (*with* Spreij, P. J. C.; van Zanten, J. H.) Some aspects of modeling and statistical inference for financial models. (English summary) **2001i:91059**
**Fraiman, Ricardo** *see* **Boente, Graciela, 2001c:62052**
**Herrmann, Horst** (*with* Liese, Friedrich) Asymptotically uniformly distributed priors and Bayes estimators in mixed models. (English summary) **2001c:62025**
**Kanishauskas, V.** An asymptotic formula for the Hellinger integral for renewal processes. (Russian. Russian and Lithuanian summaries) **2001g:60221**
**Keenan, Daniel M.** (*with* Sun, Weimin; Veldhuis, Johannes D.) A stochastic biomathematical model of the male reproductive hormone system. (English summary) **2001j:92016**
**Lahiri, Soumendra N.** Theoretical comparisons of block bootstrap methods. (English summary) **2001g:62029**
**Liese, Friedrich** *see* **Herrmann, Horst, 2001c:62025**
**Mel'nikov, A. V.** *see* **Valkeila, È., 2001g:62048**
**Mykland, Per Aslak** Conservative delta hedging. (English summary) **2001d:91102**
**Piccioni, Mauro** Independence structure of natural conjugate densities to exponential families and the Gibbs' sampler. (English summary) **2001j:62029**
**Pouet, Christophe** On testing nonparametric hypotheses for analytic regression functions in Gaussian noise. (English summary) **2001g:62032**
**Preda, Cristian** Approximation par moyennage de l'analyse en composantes principales d'un processus stochastique. (English and French summaries) [Time-average approximation of the principal component analysis of a stochastic process] **2001b:62052**
**Spokoĭnyĭ, V. G.** Efficient estimation and experimental design for controlled systems. Asymptotic approach. (English summary) **2001e:62071**
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**Stefanov, Valeri T.** Markov renewal processes and exponential families. (English summary) **2001j:60158**
**Sun, Weimin** *see* **Keenan, Daniel M. et al., 2001j:92016**
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**Valkeila, È.** (*with* Mel'nikov, A. V.) Martingale models of stochastic approximation and their convergence. (Russian. Russian summary) **2001g:62048**
**Vallois, Pierre** (*with* Tapiero, Charles S.) The range process in random walks: theoretical results and applications. (English summary) **2001m:60106**
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**William, Martin L.** (*with* Durairajan, T. M.) Estimating functions in the Bayesian paradigm. (English summary)
**Xiao, Qing Xian** (*with* Zheng, Zu Kang) The inference of the variance function of a stock price process. (Chinese. English and Chinese summaries)
**Zalesskiĭ, B. A.** Stochastic relaxation for building some classes of piecewise linear regression functions. (English summary)
**van Zanten, J. H.** *see* **Dzhaparidze, Kacha et al., 2001i:91059**
**Zheng, Zu Kang** *see* **Xiao, Qing Xian**

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**Lecture Notes in Statistics** *see* **Andersson, Håkan, 2001j:92052**

# 62Nxx Survival analysis and censored data

## 62N01 Censored data models

**Adham, Samia A.** *see* **Al-Hussaini, Essam K. et al.**
**Aggarwala, Rita** *see* **Balakrishnan, Narayanaswamy, 2001f:62063**
**Akritas, Michael G.** *see* **Van Keilegom, Ingrid, 2001b:62082**

**Al-Dayian, Gannat R.** *see* **Al-Hussaini, Essam K. et al.**
**Al-Hussaini, Essam K.** (*with* Al-Dayian, Gannat R.; Adham, Samia A.) On finite mixture of two-component Gompertz lifetime model. (English summary)
**Amemiya, Takeshi** A note on left censoring. (*see* **2001a:62132**)
**Andreev, Andrej Nickolajevich** *see* **Arjas, Elja, 2001e:62084**
**Arjas, Elja** (*with* Andreev, Andrej Nickolajevich) Predictive inference, causal reasoning, and model assessment in nonparametric Bayesian analysis: a case study. (English summary) **2001e:62084**
**Bagdonavičius, Vilijandas B.** (*with* Nikulin, Mikhail S.) Estimation in degradation models with explanatory variables. (English summary)
**Balakrishnan, Narayanaswamy** (*with* Aggarwala, Rita) ★ Progressive censoring. (English summary) **2001f:62063**
**Beamonte Córdoba, Eduardo** *see* **Bermúdez Edo, José D.**
**Bermúdez Edo, José D.** (*with* Beamonte Córdoba, Eduardo) Comparison of stochastically ordered gamma survival curves. (Spanish. Spanish summary)
**Betensky, Rebecca A.** On nonidentifiability and noninformative censoring for current status data. (English summary) **2001b:62079**
**Braekers, Roel** (*with* Veraverbeke, Noël) The partial Koziol-Green model with covariates. (English summary) **2001j:62120**
**Cadarso-Suárez, Carmen** *see* **Veraverbeke, Noël**
**Cai, Jianwen** *see* **Clegg, Limin X. et al., (2001c:62002)**
**Cai, Tianxi** (*with* Wei, Lee Jen; Wilcox, M.) Semiparametric regression analysis for clustered failure time data. (English summary) **2001k:62115**
**Chiou, Kuo-Ching** (*with* Tong, Lee-Ing) Expected type-II censoring time for 2-parameter Gompertz distribution. (English summary)
**Christiansen, Cindy** *see* **Gelfand, Alan E. et al.**
**Clegg, Limin X.** (*with* Cai, Jianwen; Sen, Pranab Kumar[1]) Modeling multivariate failure time data. (*see* **2001c:62002**)
**Colford, John M., Jr.** *see* **Hubbard, Alan E. et al., 2001e:62085**
**Commenges, D.** Multi-state models in epidemiology. (English summary) **2001b:62080**
**Datta, Somnath** (*with* Satten, Glen A.; Williamson, John M.[2]) Consistency and asymptotic normality of estimators in a proportional hazards model with interval censoring and left truncation. (English summary) **2001d:62099**
**Dauxois, Jean-Yves** Inférence par les martingales pour des processus ponctuels à compensateur discontinu. (English and French summaries) [Martingale inference for point processes with discontinuous compensator] **2001i:62105**
**DeGruttola, Victor** *see* **Lee, Mei-Ling Ting et al.**
**DeMasi, Ralph A.** Statistical methods for multivariate failure time data and competing risks. (*see* **2001c:62002**)
**Ding, A. Adam** *see* **Wang, Weijing, 2001k:62116**
**Efron, Bradley** (*with* Petrosian, Vahe) Nonparametric methods for doubly truncated data. (English summary) **2001d:62100**
**Enanoria, Wayne** *see* **Hubbard, Alan E. et al., 2001e:62085**
**van Es, A. J.** (*with* Klaassen, Chris A. J.; Oudshoorn, Karin) Survival analysis under cross-sectional sampling: length bias and multiplicative censoring. (English summary) **2001m:62115**
**Fine, Jason P.** (*with* Gelber, Richard D.) Joint regression analysis of survival and quality-adjusted survival. (English and French summaries)
**Gelber, Richard D.** *see* **Fine, Jason P.**
**Gelfand, Alan E.** (*with* Ghosh, Sujit K.; Christiansen, Cindy; Soumerai, Stephen B.; McLaughlin, Thomas J.) Proportional hazards models: a latent competing risk approach. (English summary)
**Ghosh, Debashis** (*with* Lin, D. Y.) Nonparametric analysis of recurrent events and death. (English and French summaries)
**Ghosh, Kalyanbrata** *see* **Sarkar, Sanat K., (2001c:62002)**
**Ghosh, Sujit K.** *see* **Gelfand, Alan E. et al.**
**Gross, Shulamith** (*with* Huber-Carol, Catherine) Hierarchical dependency models for multivariate survival data with censoring. (English summary)
**He, Qimei** *see* **Yu, Qiqing et al., 2001e:62086**
**Huang, Yijian** (*with* Wang, Ch'ing Yün) Cox regression with accurate covariates unascertainable: a nonparametric-correction approach. (English summary)
**Hubbard, Alan E.** (*with* van der Laan, Mark J.; Enanoria, Wayne; Colford, John M., Jr.) Nonparametric survival estimation when death is reported with delay. (English summary) **2001e:62085**
**Huber-Carol, Catherine** Censored and truncated lifetime data. (English summary) (*see* **2001c:62004**)
— *see also* **Gross, Shulamith**
**Iachine, Ivan A.** *see* **Yashin, A. I., 2001g:62056**
**Kim, Seong W.** (*with* Sun, Dongchu) Intrinsic priors for model selection using an encompassing model with applications to censored failure time data. (English summary)
**Klaassen, Chris A. J.** *see* **van Es, A. J. et al., 2001m:62115**
**Kulich, Michal** (*with* Lin, D. Y.) Additive hazards regression with covariate measurement error. (English summary) **2001h:62178**
**van der Laan, Mark J.** *see* **Hubbard, Alan E. et al., 2001e:62085**
**Lee, Mei-Ling Ting** (*with* DeGruttola, Victor; Schoenfeld, David) A model for markers and latent health status. (English summary)
**Lin, D. Y.** (*with* Wei, Lee Jen; Yang, Ilsoon; Ying, Zhiliang) Semiparametric regression for the mean and rate functions of recurrent events. (English summary)
— *see also* **Kulich, Michal, 2001h:62178** *and* **Ghosh, Debashis**
**Lindkvist, Marie** Properties of added variable plots in Cox's regression model. (English summary) **2001b:62081**
**McLaughlin, Thomas J.** *see* **Gelfand, Alan E. et al.**
**Nikulin, Mikhail S.** *see* **Bagdonavičius, Vilijandas B.**
**O'Quigley, John** *see* **Xu, Ronghui, 2001c:62112**
**Oudshoorn, Karin** *see* **van Es, A. J. et al., 2001m:62115**
**Petrosian, Vahe** *see* **Efron, Bradley, 2001d:62100**
**Robins, James M.** Marginal structural models versus structural nested models as tools for causal inference. (English summary) **2001a:62124**
**Sarkar, Sanat K.** (*with* Ghosh, Kalyanbrata) Bounds on joint survival probabilities with positively dependent competing risks. (*see* **2001c:62002**)
**Satten, Glen A.** *see* **Datta, Somnath et al., 2001d:62099**
**Schoenfeld, David** *see* **Lee, Mei-Ling Ting et al.**
**Sen, Pranab Kumar[1]** *see* **Clegg, Limin X. et al., (2001c:62002)**
**Soumerai, Stephen B.** *see* **Gelfand, Alan E. et al.**
**Sun, Dongchu** *see* **Kim, Seong W.**
**Tong, Lee-Ing** *see* **Chiou, Kuo-Ching**
**Tsiatis, Anastasios A.** *see* **Zhao, Hongwei**
**Van Keilegom, Ingrid** (*with* Akritas, Michael G.) Transfer of tail information in censored regression models. (English summary) **2001b:62082**
**Veraverbeke, Noël** (*with* Cadarso-Suárez, Carmen) Estimation of the conditional distribution in a conditional Koziol-Green model. (English summary)
— *see also* **Braekers, Roel, 2001j:62120**
**Wang, Ch'ing Yün** *see* **Huang, Yijian**
**Wang, Weijing** (*with* Ding, A. Adam) On assessing the association for bivariate current status data. (English summary) **2001k:62116**
**Wei, Lee Jen** *see* **Cai, Tianxi et al., 2001k:62115** *and* **Lin, D. Y. et al.**
**Wilcox, M.** *see* **Cai, Tianxi et al., 2001k:62115**
**Williamson, John M.[2]** *see* **Datta, Somnath et al., 2001d:62099**
**Wong, George Y. C.** *see* **Yu, Qiqing et al., 2001e:62086**
**Xu, Ronghui** (*with* O'Quigley, John) A $R^2$ type measure of dependence for proportional hazards models. (English summary) **2001c:62112**
**Yang, Ilsoon** *see* **Lin, D. Y. et al.**
**Yashin, A. I.** (*with* Iachine, Ivan A.) Dependent hazards in multivariate survival problems. (English summary) **2001g:62056**
**Ying, Zhiliang** *see* **Lin, D. Y. et al.**
**Yu, Qiqing** (*with* Wong, George Y. C.; He, Qimei) Estimation of a joint distribution function with multivariate interval-censored data when the nonparametric MLE is not unique. (English summary) **2001e:62086**
**Zhao, Hongwei** (*with* Tsiatis, Anastasios A.) Estimating mean quality adjusted lifetime with censored data. (English summary)

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**Ahmed, S. Ejaz** (*with* Rahbar, M. H.) Shrinkage and pretest nonparametric estimation of regression parameters from censored data with multiple observations at each level of covariate. (English summary)
**Andrews, Chris** *see* **van der Laan, Mark J., 2001b:62027**
**Birgé, Lucien** Interval censoring: a nonasymptotic point of view. (English summary) **2001g:62025**
**Bravo, José I.** *see* **Fernández, Arturo J. et al.**
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## 62N02 Estimation

**Bagdonavičius, Vilijandas B.** (*with* Nikulin, Mikhail S.) Generalized proportional hazards model based on modified partial likelihood. (English summary) **2001a:62125**

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**Borgan, Ørnulf** *see* **Zhang, Jian, 2001a:62127**

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**Schick, Anton** (*with* Yu, Qiqing) Consistency of the GMLE with mixed case interval-censored data. (English summary)

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**Shen, Xiaotong** Linear regression with current status data. (English summary) **2001k:62118**

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**Zhang, Jian** (*with* Borgan, Ørnulf) Aalen's linear model for sampled risk set data: a large sample study. (English summary) **2001a:62127**

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**Akritas, Michael G.** *see* **Van Keilegom, Ingrid, 2001b:62082**

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— *see also* **Feng, Qilin, 2001d:62039**
**Lu, Xuewen** *see* **Singh, Radhey S., (2001j:62007)**
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**Murray, Susan** Using weighted Kaplan-Meier statistics in nonparametric comparisons of paired censored survival outcomes. (English and French summaries)
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**Shieh, Bih-Sheue** (*with* Lea, Cheun-Der) The jump sizes of the product-limit estimator under random censorship. (English summary) **2001c:62069**
**Singh, Radhey S.** (*with* Lu, Xuewen) Asymptotic normality of estimators for the parameters in the location-scale model with randomly right-censored data. (English summary) (*see* **2001j:62007**)
**Song, Jae-Kee** *see* **Ha, Il Do et al.**
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**Yang, Song** Functional estimation under interval censoring case 1. (English summary) **2001h:62058**
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**Zhou, Xian** (*with* Sun, Liuquan; Ren, Haobo) Quantile estimation for left truncated and right censored data. (English summary) **2001j:62038**
**Zhou, Yong²** (*with* Zhu, Li-Xing) Nearest neighbor regression function estimation with censored data. (English and Chinese summaries) **2001d:62045**
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## 62N03 Testing

**Buyske, Steven** (*with* Fagerstrom, Richard; Ying, Zhiliang) A class of weighted log-rank tests for survival data when the event is rare. (English summary) **2001i:62106**
**Fagerstrom, Richard** *see* **Buyske, Steven et al., 2001i:62106**
**Gombay, Edit** (*with* Liu, Shuangquan) A nonparametric test for change in randomly censored data. (English and French summaries)
**González-Manteiga, Wenceslao** *see* **Stute, Winfried et al.**
**Harrington, David P.** *see* **Jones, Cheryl L.**
**Jones, Cheryl L.** (*with* Harrington, David P.) Omnibus tests of the martingale assumption in the analysis of recurrent failure time data. (English summary)
**Liu, Shuangquan** *see* **Gombay, Edit**
**Manatunga, Amita K.** *see* **Viswanathan, Bindu**
**Murray, Susan** Nonparametric rank-based methods for group sequential monitoring of paired censored survival data. (English and French summaries)
— (*with* Tsiatis, Anastasios A.) Using auxiliary time-dependent covariates to recover information in nonparametric testing with censored data. (English summary)
**Pan, Wei²** A comparison of some two-sample tests with interval censored data. (English summary) **2001a:62128**
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**Sánchez Sellero, C.** *see* **Stute, Winfried et al.**
**Shen, Pao-sheng** Testing for sufficient follow-up in survival data. (English summary) **2001j:62122**
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**Singh, Radhey S.** *see* **Singh, Harshinder et al.**
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**Tsiatis, Anastasios A.** *see* **Murray, Susan**
**Viswanathan, Bindu** (*with* Manatunga, Amita K.) Diagnostic plots for assessing the frailty distribution in multivariate survival data. (English summary)
**Wang, Weijing** (*with* Wells, Martin T.) Model selection and semiparametric inference for bivariate failure-time data. (English summary) **2001j:62123**
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**Broström, Göran** (*with* Nilsson, Leif) Acceptance-rejection sampling from the conditional distribution of independent discrete random variables, given their sum. (English summary) **2001j:62054**
**Ibrahim, Joseph G.** *see* **Kim, Seong W.**
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**Kim, Dal Ho** (*with* Kang, Sang Gil; Kim, Seoag W.) Intrinsic Bayes factors for exponential model comparison with censored data. (English summary)
**Kim, Jinheum** A Kolmogorov-Smirnov-type test for independence of bivariate failure time data under independent censoring. (English summary)
**Kim, Seong W.** (*with* Ibrahim, Joseph G.) On Bayesian inference for proportional hazards models using noninformative priors. (English summary)
— *see also* **Kim, Dal Ho et al.**
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**Sun, Jianguo** (*with* Yang, Ilsoon) Nonparametric tests for stratum effects in the Cox model. (English summary)
**Yang, Ilsoon** *see* **Sun, Jianguo**

## 62N05 Reliability and life testing [see also 90B25]

**Abraham, Bovas** (*with* Balakrishna, N.) Estimation of limiting availability for a stationary bivariate process. (English summary) **2001k:62119**
**Agustin, Marcus A.** A stopping criterion for a dynamic competing risks model. (English summary) **2001j:62124**
**Ahmad, Ibrahim A.** Testing exponentiality against positive ageing using kernel methods. (English summary)
**Al-Graian, M. N.** *see* **Hendi, M. M. I. et al.**
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**Aminzadeh, M. S.** Bootstrap tolerance and confidence limits for two-variable reliability using independent and weakly dependent observations. (English summary)
**Arghami, N. R.** *see* **Rezaei, A. H.**
**Asadi, Majid** (*with* Ebrahimi, Nader) Residual entropy and its characterizations in terms of hazard function and mean residual life function. (English summary)
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## 62P10 Applications to biology and medical sciences

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**Shen, Pao-sheng** Testing for sufficient follow-up in survival data. (English summary) **2001j:62122**

**Shih, Weichung Joseph** (*with* Quan, Hui) On the composite approach to dropouts in clinical trials. (English summary)

**(Sinha, Bimal K.)** *see* **Biostatistics**

**Stephens, Matthew** (*with* Donnelly, Peter) Inference in molecular population genetics. (English summary) **2001h:62047**

**Stern, Steven N.** *see* **Gurmu, Shiferaw et al., 2001e:62029**

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**Timmermann, Allan** *see* **Perez-Quiros, Gabriel**

**Torsey, David C.** *see* **Macula, Anthony J. et al., 2001j:92001**
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**Tsiatis, Anastasios A.** *see* **Bang, Heejung; Zhao, Hongwei** *and* **Murray, Susan**
**Tsuda, Yoshiyuki** Multivariate bioequivalence test procedures. (Japanese) (*see* **2001g:62003**)
**Viana, Marlos A. G.** (*with* Pereira, Carlos Alberto de Bragança) Statistical assessment of jointly observed screening tests. (English summary)
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**Wang, Yuedong** (*with* Guo, Wensheng; Brown, Morton B.) Spline smoothing for bivariate data with applications to association between hormones. (English summary)
**Wassmer, Gernot** Basic concepts of group sequential and adaptive group sequential test procedures. (English summary)
**Wellek, Stefan** Bayesian construction of an improved parametric test for probability-based individual bioequivalence. (English summary)
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**Willemse, W. J.** (*with* Koppelaar, H.) Knowledge elicitation of Gompertz' law of mortality. (English summary) **2001k:92061**
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**Zhang, Zhong-Zhan** (*with* Fujii, Yoshinori; Yanagawa, Takashi) On Mantel-Haenszel type estimators in simple nested case-control studies. (English summary)
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## 62P12 Applications to environmental and related topics

**Chao, Anne** (*with* Yip, Paul S. F.; Lee, Shen-Ming; Chu, Wenten) Population size estimation based on estimating functions for closed capture-recapture models. (English summary) **2001k:62122**
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**Hsu, Nan-Jung** *see* **Lahiri, Soumendra N. et al., 2001a:62122**
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**Kvam, Paul H.** (*with* Tiwari, Ram C.; Zalkikar, Jyoti N.) Nonparametric Bayes estimation of contamination levels using observations from the residual distribution. (English summary) **2001k:62044**
**Lahiri, Soumendra N.** (*with* Kaiser, Mark S.; Cressie, Noel; Hsu, Nan-Jung) Prediction of spatial cumulative distribution functions using subsampling. (English summary) **2001a:62122**
**Ploner, Alexander** (*with* Dutter, Rudolf) New directions in geostatistics. (English summary) **2001m:86018**
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## 62P15 Applications to psychology

**Bentler, Peter M.** *see* **Yuan, Ke-Hai**
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**Berger, Martijn P. F.** (*with* King, C. Y. Joy; Wong, Weng Kee) Minimax $D$-optimal designs for item response theory models. (English summary)
**Chen, Xi Zhen** Research on several problems about test equating. (Chinese. English and Chinese summaries)
— Estimation of standard errors for linear equating. (Chinese. English and Chinese summaries)
**Du, Wen Jiu** Parameters estimation for item-response-theory multicategory scoring items. (Chinese. English and Chinese summaries)
**Eggen, Theo J. H. M.** On the loss of information in conditional maximum likelihood estimation of item parameters. (English summary)
**Fox, Jean-Paul** (*with* Glas, Cees A. W.) Bayesian estimation of a multilevel IRT model using Gibbs sampling. (English summary)
**Glas, Cees A. W.** *see* **Fox, Jean-Paul**
**Ip, Edward Hak-sing** (*with* Lalwani, Neal) A note on the geometric interpretation of the EM algorithm in estimating item characteristics and student abilities. (English summary)
— Testing for local dependency in dichotomous and polytomous item response models. (English summary)
**Joe, Harry** Multivariate extreme value distributions and coverage of ranking probabilities. (English summary) **2001j:62130**
**King, C. Y. Joy** *see* **Berger, Martijn P. F. et al.**
**Klein, Andreas** (*with* Moosbrugger, Helfried) Maximum likelihood estimation of latent interaction effects with the LMS method. (English summary)
**Knott, Martin** *see* **Moustaki, Irini**
**Lalwani, Neal** *see* **Ip, Edward Hak-sing**
**Lee, Sik-Yum** *see* **Zhu, Hong-Tu**
**Maydeu-Olivares, Albert** Limited information estimation and testing of Thurstonian models for paired comparison data under multiple judgment sampling. (English summary)
**Meijer, Rob R.** *see* **Sijtsma, Klaas**
**Moosbrugger, Helfried** *see* **Klein, Andreas**
**Moustaki, Irini** (*with* Knott, Martin) Generalized latent trait models. (English summary)
**Nakamura, Takashi** A Bayesian multinomial logit cohort model for data obtained using a multiple choice question. (Japanese. English summary)
**Nel, D. G.** *see* **van Zyl, J. M. et al.**
**Neudecker, Heinz** *see* **van Zyl, J. M. et al.**
**Shapiro, Alexander** (*with* ten Berge, Jos M. F.) The asymptotic bias of minimum trace factor analysis, with applications to the greatest lower bound to reliability. (English summary)
**Sijtsma, Klaas** (*with* Meijer, Rob R.) The person response function as a tool in person-fit research. (English summary)
**Wong, Weng Kee** *see* **Berger, Martijn P. F. et al.**
**Yuan, Ke-Hai** (*with* Bentler, Peter M.) Effectof outliers on estimators and tests in covariance structure analysis. (English summary)
**Zhu, Hong-Tu** (*with* Lee, Sik-Yum) A Bayesian analysis of finite mixtures in the LISREL model. (English summary)
**van Zyl, J. M.** (*with* Neudecker, Heinz; Nel, D. G.) On the distribution of the maximum likelihood estimator of Cronbach's alpha. (English summary)

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**Agresti, Alan** *see* **Ghosh, Malay et al., 2001a:62032**
**Anderson, Carolyn J.** (*with* Böckenholt, Ulf) Graphical regression models for polytomous variables. (English summary)
**Arabie, Phipps** *see* **Hubert, Lawrence et al.**
**Bentler, Peter M.** *see* **Hayashi, Kentaro, 2001b:62051**
**ten Berge, Jos M. F.** The typical rank of tall three-way arrays. (English summary)
**Bernard, Jean-Marc** *see* **Rouanet, Henri et al., 2001j:62003**
**Bert, Marie-Claude** *see* **Rouanet, Henri et al., 2001j:62003**
**Böckenholt, Ulf** *see* **Anderson, Carolyn J.**
**Chen, Chun-Houh** (*with* Chen, Jih-An) Interactive diagnositic plots for multidimensional scaling with applications is psychosis disorder data analysis. (English summary)
**Chen, Jih-An** *see* **Chen, Chun-Houh**
**Chen, Ming-Hui** *see* **Ghosh, Malay et al., 2001a:62032**
**Farewell, V. T.** *see* **Sprott, D. A.**
**Ghosh, Atalanta** *see* **Ghosh, Malay et al., 2001a:62032**
**Ghosh, Malay** (*with* Ghosh, Atalanta; Chen, Ming-Hui; Agresti, Alan) Noninformative priors for one-parameter item response models. (English summary) **2001a:62032**
**Hayashi, Kentaro** (*with* Bentler, Peter M.) On the relations among regular, equal unique variances, and image factor analysis models. (English summary) **2001b:62051**
**Hubert, Lawrence** (*with* Arabie, Phipps; Meulman, Jacqueline) ★ Combinatorial data analysis. (English summary)
**Lecoutre, Bruno** *see* **Rouanet, Henri et al., 2001j:62003**
**Lecoutre, Marie-Paule** *see* **Rouanet, Henri et al., 2001j:62003**
**Le Roux, Brigitte** *see* **Rouanet, Henri et al., 2001j:62003**
**Meulman, Jacqueline** *see* **Hubert, Lawrence et al.**
**Rouanet, Henri** (*with* Bernard, Jean-Marc; Bert, Marie-Claude; Lecoutre, Bruno; Lecoutre, Marie-Paule; Le Roux, Brigitte) ★ New ways in statistical methodology. **2001j:62003**
**Smith, Philip L.** Stochastic dynamic models of response time and accuracy: a foundational primer. (English summary) **2001e:91136**
**Sprott, D. A.** (*with* Farewell, V. T.) The analysis of subject specific agreement. (English summary)
**Suck, Reinhard** Scale type $(N, N)$ and an order-based topology induced on the automorphism group. (English summary) **2001j:91105**
**(Suppes, Patrick)** *see* **Rouanet, Henri et al., 2001j:62003**

## 62P20 Applications to economics [see also 91Bxx]

**Ahn, Seung Chan** (*with* Schmidt, Peter Joseph) Modified generalized instrumental variables estimation of panel data models with strictly exogenous instrumental variables. (*see* **2001a:62132**)
— (*with* Good, David H.; Sickles, Robin C.) Estimation of long-run inefficiency levels: a dynamic frontier approach. (English summary) (*see* **2001f:62005**)
**Andersson, Lars Jonas** On the normal inverse Gaussian stochastic volatility model. (English summary)
**Baltagi, Badi H.** (*with* Fomby, Thomas B.; Hill, R. Carter) Introduction.
— (*with* Kao, Chihwa) Nonstationary panels, cointegration in panels and dynamic panels: a survey. (English summary)
**(Banerjee, Anindya[1])** *see* **Econometrics of economic policy**
**van den Berg, Gerard J.** (*with* van der Klaauw, Bas) Combining micro and macro unemployment duration data. (English summary)
**Berg, M. Douglas** (*with* Li, Qi[1]; Ullah, Aman) Instrumental variable estimation of semiparametric dynamic panel data models: Monte Carlo results on several new and existing estimators. (English summary)
**Bierens, Herman J.** Nonparametric nonlinear cotrending analysis, with an application to interest and inflation in the United States. (English summary)
**Biørn, Erik** Panel data with measurement errors: instrumental variables and GMM procedures combining levels and differences. (English summary) **2001i:62111**
**Blundell, Richard** (*with* Bond, Stephen; Windmeijer, Frank) Estimation in dynamic panel data models: improving on the performance of the standard GMM estimator. (English summary)
**Bond, Stephen** *see* **Blundell, Richard et al.**
**Breitung, Jörg** The local power of some unit root tests for panel data. (English summary)
**Breunig, Robert** An almost unbiased estimator of the coefficient of variation. (English summary)
**Charlier, Erwin** (*with* Melenberg, Bertrand; van Soest, Arthur) An analysis of housing expenditure using semiparametric models and panel data. (English summary)

**Chatterjee, Shoutir Kishore** (*with* Sen, Pranab Kumar[1]) On stochastic ordering and a general class of poverty indexes. (English summary)
**Chen, Songnian** (*with* Khan, Shakeeb) Estimating censored regression models in the presence of nonparametric multiplicative heteroskedasticity. (English summary)
**Chen, Xiaohong[1]** (*with* Fan, Yanqin) Consistent hypothesis testing in semiparametric and nonparametric models for econometric time series. (English summary) **2001b:62084**
**Chiang, Min-Hsien** *see* **Kao, Chihwa**
**Conley, T. G.** GMM estimation with cross sectional dependence. (English summary) **2001c:62116**
**Davies, Anthony** (*with* Lahiri, Kajal) Re-examining the rational expectations hypothesis using panel data on multi-period forecasts. (*see* **2001a:62132**)
**Dhrymes, Phoebus J.** ★ Mathematics for econometrics. (English summary) **2001h:62186**
**El-Gamal, Mahmoud A.** (*with* Grether, David M.) A Monte Carlo study of EC estimation in panel data models with limited dependent variables and heterogeneity. (*see* **2001a:62132**)
**Fan, Yanqin** (*with* Li, Qi[1]) Consistent model specification tests: kernel-based tests versus Bierens' ICM tests. (English summary) **2001j:62131**
— *see also* **Chen, Xiaohong[1], 2001b:62084**
**Fan, Yong Hu** *see* **Wang, Song-Gui**
**Fomby, Thomas B.** *see* **Baltagi, Badi H. et al.**
**Gao, Chuanming** (*with* Lahiri, Kajal) Further consequences of viewing LIML as an iterated Aitken estimator. (English summary) **2001h:62187**
**van Garderen, Kees Jan** (*with* Lee, Kevin C.; Pesaran, M. Hashem) Cross-sectional aggregation of non-linear models. (English summary) **2001h:62188**
**Geweke, John** (*with* Keane, Michael P.) Mixture of normals probit models. (*see* **2001a:62132**)
**Good, David H.** *see* **Ahn, Seung Chan et al., (2001f:62005)**
**Grether, David M.** *see* **El-Gamal, Mahmoud A., (2001a:62132)**
**Guerre, Emmanuel** (*with* Perrigne, Isabelle; Vuong, Quang) Optimal nonparametric estimation of first-price auctions. (English summary) **2001c:62117**
**Hadri, Kaddour** Testing for stationarity in heterogeneous panel data. (English summary)
**Hafner, Christian M.** (*with* Herwartz, Helmut) Testing for linear autoregressive dynamics under heteroskedasticity. (English summary)
**Hansen, Bruce E.** Sample splitting and threshold estimation. (English summary) **2001c:62118**
— Testing for structural change in conditional models. (English summary)
**Harvey, Andrew** (*with* Koopman, Siem Jan) Signal extraction and the formulation of unobserved components models. (English summary)
**Hecq, Alain** (*with* Palm, Franz C.; Urbain, Jean-Pierre) Testing for common cyclical features in nonstationary panel data models. (English summary)
**(Hendry, David Forbes)** *see* **Econometrics of economic policy**
**Herwartz, Helmut** *see* **Hafner, Christian M.**
**Heshmati, Almas** *see* **Kumbhakar, Subal C. et al., (2001f:62005)**
**Hill, R. Carter** *see* **Baltagi, Badi H. et al.**
**Honoré, Bo E.** (*with* Kyriazidou, Ekaterini) Estimation of Tobit-type models with individual specific effects. (English summary) (*see* **2001f:62004**)
— (*with* Kyriazidou, Ekaterini) Panel data discrete choice models with lagged dependent variables. (English summary) **2001d:62102**
**Hornik, Kurt** *see* **Leisch, Friedrich et al., 2001k:62123**
**Hosoya, Yuzo** *see* **Yao, Feng**
**Hsiao, Cheng** (*with* Pesaran, M. Hashem; Tahmiscioglu, A. Kamil) Bayes estimation of short-run coefficients in dynamic panel data models. (*see* **2001a:62132**)
— *see also* **Analysis of panels and limited dependent variable models, 2001a:62132**
**Inkmann, Joachim** ★ Conditional moment estimation of nonlinear equation systems.
**Islam, Nazrul[2]** Small sample performance of dynamic panel data estimators in estimating the growth-convergence equation: a Monte Carlo study. (English summary)
**Jensen, Uwe[2]** Measuring earning differentials with frontier functions and Rao distances. (*see* **2001d:62003**)
**Jhun, Myoungshic** *see* **Jung, Byoung Cheol et al.**
**Jørgensen, Clara** *see* **Rahbek, Anders et al., 2001d:62103**
**Jung, Byoung Cheol** (*with* Jhun, Myoungshic; Song, Seuck Heun) Asymptotic distribution of the LM test statistic for the nested error component regression model. (English summary)
**Kao, Chihwa** (*with* Chiang, Min-Hsien) On the estimation and inference of a cointegrated regression in panel data. (English summary)
— *see also* **Baltagi, Badi H.**
**Kauppi, Heikki** Panel data limit theory and asymptotic analysis of a panel regression with near integrated regressors. (English summary)
**Keane, Michael P.** *see* **Geweke, John, (2001a:62132)**
**Keuzenkamp, Hugo A.** ★ Probability, econometrics and truth. (English summary) **2001m:62124**
**Khan, Shakeeb** *see* **Chen, Songnian**
**Kim, Jeong-Ryeol** *see* **Rachev, Svetlozar T. et al., 2001e:62091**
**Kiviet, Jan F.** Expectations of expansions for estimators in a dynamic panel data model: some results for weakly exogenous regressors. (*see* **2001a:62132**)
**van der Klaauw, Bas** *see* **van den Berg, Gerard J.**
**Kongsted, Hans Christian** *see* **Rahbek, Anders et al., 2001d:62103**
**Koopman, Siem Jan** *see* **Harvey, Andrew**
**Kruiniger, Hugo** On the solution of the linear rational expectations model with multiple lags. (English summary) **2001a:62130**
**Kuan, Chung-Ming** *see* **Leisch, Friedrich et al., 2001k:62123**
**Kumbhakar, Subal C.** Estimation and decomposition of productivity change when production is not efficient: a panel data approach. (English summary) (*see* **2001f:62005**)
— (*with* Nakamura, Shinichiro; Heshmati, Almas) Estimation of firm-specific technological bias, technical change and total factor productivity growth: a dual approach. (English summary) (*see* **2001f:62005**)
**Kyriazidou, Ekaterini** *see* **Honoré, Bo E., 2001d:62102** *and* **(2001f:62004)**
**Lahiri, Kajal** *see* **Analysis of panels and limited dependent variable models, 2001a:62132; Gao, Chuanming, 2001h:62187** *and* **Davies, Anthony, (2001a:62132)**
**Lee, Kevin C.** *see* **van Garderen, Kees Jan et al., 2001h:62188**
**Lee, Lung-Fei** Estimation of dynamic limited-dependent rational expectations models. (*see* **2001a:62132**)
— Statistical inference with simulated likelihood functions. (English summary) **2001a:62131**
— *see also* **Analysis of panels and limited dependent variable models, 2001a:62132**
**Lee, Myoung-jae** First-difference estimator for panel censored-selection models. (English summary)
**Leisch, Friedrich** (*with* Hornik, Kurt; Kuan, Chung-Ming) Monitoring structural changes with the generalized fluctuation test. (English summary) **2001k:62123**
**Lewbel, Arthur** Semiparametric qualitative response model estimation with unknown heteroscedasticity or instrumental variables. (English summary) **2001f:62067**
**Leybourne, Stephen J.** (*with* Newbold, Paul) Behaviour of the standard and symmetric Dickey-Fuller-type tests when there is a break under the null hypothesis. (English summary) **2001j:62132**
— (*with* Newbold, Paul) Behavior of Dickey-Fuller $t$-tests when there is a break under the alternative hypothesis. (English summary) **2001j:62133**
**Li, Qi[1]** Efficient estimation of additive partially linear models. (English summary) **2001f:62068**
— *see also* **Fan, Yanqin, 2001j:62131** *and* **Berg, M. Douglas et al.**
**Li, Tong[2]** (*with* Perrigne, Isabelle; Vuong, Quang) Conditionally independent private information in OCS wildcat auctions. (English summary)
**Lu, Maozu** (*with* Mizon, Grayham E.) Nested models, orthogonal projection and encompassing. (*see* **2001d:62003**)
**Machado, José A. F.** (*with* Santos Silva, J. M. C.) Glejser's test revisited. (English summary)
**Maddala, G. S.** Econometrics in the 21st century. (English summary)
— *see also* **Analysis of panels and limited dependent variable models, 2001a:62132**
**Manski, Charles F.** (*with* Pepper, John V.) Monotone instrumental variables: with an application to the returns to schooling.
**McCracken, Michael W.** Robust out-of-sample inference. (English summary) **2001h:62189**
**McCrorie, J. Roderick** Deriving the exact discrete analog of a continuous time system. (English summary) **2001j:62134**
**Melenberg, Bertrand** *see* **Charlier, Erwin et al.**
**Mittnik, Stefan** *see* **Rachev, Svetlozar T. et al., 2001e:62091**
**Mizon, Grayham E.** *see* **Lu, Maozu, (2001d:62003)**
**Moon, Hyungsik R.** *see* **Phillips, Peter C. B., (2001f:62004)**
**Murray, Christian J.** (*with* Papell, David H.) Testing for unit roots in panels in the presence of structural change with an application to OECD unemployment. (English summary)
**Nakamura, Shinichiro** *see* **Kumbhakar, Subal C. et al., (2001f:62005)**
**Nerlove, Marc** Properties of alternative estimators of dynamic panel models: an empirical analysis of cross-country data for the study of economic growth. (*see* **2001a:62132**)
**Neusser, Klaus** An algebraic interpretation of cointegration. (English summary) **2001b:62085**
**Newbold, Paul** *see* **Leybourne, Stephen J., 2001j:62132** *and* **2001j:62133**
**Palm, Franz C.** *see* **Hecq, Alain et al.**
**Papell, David H.** *see* **Murray, Christian J.**
**Park, Byeong U.** (*with* Simar, Léopold; Weiner, Ch.) The FDH estimator for productivity efficiency scores. (English summary) **2001j:62135**
**Park, Joon Y.** (*with* Phillips, Peter C. B.) Nonstationary binary choice. (English summary) **2001h:62190**
**Pedroni, Peter** Fully modified OLS for heterogeneous cointegrated panels. (English summary)
**Pepper, John V.** *see* **Manski, Charles F.**
**Perrigne, Isabelle** *see* **Guerre, Emmanuel et al., 2001c:62117** *and* **Li, Tong[2] et al.**
**Pesaran, M. Hashem** (*with* Zhao, Zhongyun) Bias reduction in estimating long-run relationships from dynamic heterogeneous panels. (*see* **2001a:62132**)
— (*with* Shin, Yongcheol; Smith, Richard J.) Structural analysis of vector error correction models with exogenous $I(1)$ variables. (English summary) **2001h:62191**
— *see also* **Analysis of panels and limited dependent variable models, 2001a:62132; van Garderen, Kees Jan et al., 2001h:62188; Hsiao, Cheng et al., 2001a:62132** *and* **(2001a:62132)**
**Phillips, Garry D. A.** An alternative approach to obtaining Nagar-type moment approximations in simultaneous equation models. (English summary)
**Phillips, Peter C. B.** (*with* Moon, Hyungsik R.) Nonstationary panel data analysis: an overview of some recent developments. (English summary) (*see* **2001f:62004**)
— *see also* **Park, Joon Y., 2001h:62190**
**Rachev, Svetlozar T.** (*with* Kim, Jeong-Ryeol; Mittnik, Stefan) Stable Paretian models in econometrics. II. (English summary) **2001e:62091**
**Rahbek, Anders** (*with* Kongsted, Hans Christian; Jørgensen, Clara) Trend stationarity in the $I(2)$ cointegration model. (English summary) **2001d:62103**
**Santos Silva, J. M. C.** *see* **Machado, José A. F.**
**Schmidt, Peter Joseph** *see* **Ahn, Seung Chan, (2001a:62132)**
**Sen, Pranab Kumar[1]** *see* **Chatterjee, Shoutir Kishore**
**Shin, Yongcheol** *see* **Pesaran, M. Hashem et al., 2001h:62191**
**Sickles, Robin C.** *see* **Ahn, Seung Chan et al., (2001f:62005)**
**Silvapulle, Paramsothy** A Lagrange multiplier test for seasonal fractional integration. (English and Italian summaries)
**Simar, Léopold** *see* **Park, Byeong U. et al., 2001j:62135**
**Smith, Richard J.** *see* **Pesaran, M. Hashem et al., 2001h:62191**
**van Soest, Arthur** *see* **Charlier, Erwin et al.**
**So Im, Kyung** Robustifying Glejser test of heteroskedasticity. (English summary) **2001f:62069**
**Song, Seuck Heun** *see* **Jung, Byoung Cheol et al.**
**Stock, James H.** (*with* Wright, Jonathan H.) GMM with weak identification. (English summary) **2001h:62192**
**Taber, Christopher R.** Semiparametric identification and heterogeneity in discrete choice dynamic programming models. (English su.nmary) **2001b:62086**
**Tahmiscioglu, A. Kamil** *see* **Hsiao, Cheng et al., (2001a:62132)**
**Turkington, Darrell** Generalised vec operators and the seemingly unrelated regression equations model with vector correlated disturbances. (English summary)

**Tveterås, Ragnar** Flexible panel data models for risky production technologies with an application to salmon aquaculture. (English summary) (*see* **2001f:62004**)
**Ullah, Aman** *see* **Berg, M. Douglas et al.**
**Urbain, Jean-Pierre** *see* **Hecq, Alain et al.**
**Vinod, H. D.** Using Godambe-Durbin estimating functions in econometrics. (English summary) (*see* **2001m:62003**)
**Vuong, Quang** *see* **Guerre, Emmanuel et al., 2001c:62117** *and* **Li, Tong[3] et al.**
**Wang, Song-Gui** (*with* Fan, Yong Hu) Optimality of two-stage estimators in panel models. (Chinese. English and Chinese summaries)
**Weiner, Ch.** *see* **Park, Byeong U. et al., 2001j:62135**
**White, Halbert** A reality check for data snooping. (English summary)
**Windmeijer, Frank** *see* **Blundell, Richard et al.**
**Wright, Jonathan H.** *see* **Stock, James H., 2001h:62192**
**Wu, Shaowen** *see* **Yin, Yong**
**Yang, Jian[1]** Structural change tests under regression misspecifications. (English summary)
**Yang, Minxian** Closed-form likelihood function of Markov-switching models. (English summary)
**Yao, Feng** (*with* Hosoya, Yuzo) Inference on one-way effect and evidence in Japanese macroeconomic data. (English summary)
**Yin, Yong** (*with* Wu, Shaowen) Stationarity tests in heterogeneous panels. (English summary)
**Zanella, Angelo** A stochastic model for the analysis of customer satisfaction: some theoretical aspects. (English and Italian summaries) **2001h:62193**
**Zhao, Zhongyun** *see* **Pesaran, M. Hashem, (2001a:62132)**
**Zheng, Buhong** Statistical inference for poverty measures with relative poverty lines. (English summary)

## Items listed otherwise than by author

**Analysis of panels and limited dependent variable models** ★ Analysis of panels and limited dependent variable models. **2001a:62132**
**Econometrics of economic policy** ★ The econometrics of economic policy.
**Fiesole** ★ The econometrics of economic policy.
**Lecture Notes in Economics and Mathematical Systems** *see* **Inkmann, Joachim**

## Items with secondary classifications in 62P20

**Ahn, Seung Chan** (*with* Lee, Young Hoon; Schmidt, Peter Joseph) GMM estimation of linear panel data models with time-varying individual effects. (English summary)
**Akahira, Masafumi** (*with* Kawai, Shinichi) Estimation by the method of moments in the errors-in-variables model. (Japanese) (*see* **2001g:62003**)
**(de Alba, Enrique)** *see* **Zellner, Arnold**
**Amemiya, Takeshi** A note on left censoring. (*see* **2001a:62132**)
**Amemiya, Yasuo** *see* **Wall, Melanie M.**
**Anderson, T. W.** The asymptotic distribution of canonical correlations and variates in cointegrated models. (English summary) **2001c:62092**
**Andrews, Donald W. K.** (*with* Lu, Biao) Consistent model and moment selection procedures for GMM estimation with application to dynamic panel data models. (English summary)
**Antweiler, Werner** Nested random effects estimation in unbalanced panel data. (English summary)
**Arai, Yoichi** (*with* Yamamoto, Taku) Alternative representation for asymptotic distributions of impulse responses in cointegrated VAR systems. (English summary) **2001b:62070**
**Arellano, Manuel** (*with* Bover, Olympia; Labeaga, José M.) Autoregressive models with sample selectivity for panel data. (*see* **2001a:62132**)
**Babyak, Colin** *see* **Binder, David A. et al., 2001m:62011**
**Baillie, Richard T.** (*with* Baltagi, Badi H.) Prediction from the regression model with one-way error components. (*see* **2001a:62132**)
**Baltagi, Badi H.** *see* **Baillie, Richard T., (2001a:62132)**
**Baran, Sándor** A new consistent estimator for linear errors-in-variables models. (English summary)
**(Barnett, William A.)** *see* **Nonlinear econometric modeling in time series, 2001e:62003**
**Bera, Anil K.** (*with* Sosa-Escudero, Walter; Yoon, Mann) Tests for the error component model in the presence of local misspecification. (English summary)
**Bilias, Yannis** (*with* Chen, Songnian; Ying, Zhiliang) Simple resampling methods for censored regression quantiles. (English summary) **2001i:62053**
**Binder, David A.** (*with* Babyak, Colin; Brodeur, Marie; Hidiroglou, Michael A.; Jocelyn, Wisner) Variance estimation for two-phase stratified sampling. (English and French summaries) **2001m:62011**
**Binder, Michael** (*with* Pesaran, M. Hashem) Solution of finite-horizon multivariate linear rational expectations models and sparse linear systems. (English summary) **2001e:91133**
**Boswijk, H. Peter** Mixed normality and ancillarity in $I(2)$ systems. (English summary) **2001k:62102**
**Bover, Olympia** *see* **Arellano, Manuel et al., (2001a:62132)**
**Brailsford, T. J.** *see* **Penm, Jack H. W. et al., 2001e:62079**
**Brodeur, Marie** *see* **Binder, David A. et al., 2001m:62011**
**Carrasco, Marine** (*with* Florens, Jean-Pierre) Generalization of GMM to a continuum of moment conditions. (English summary) **2001k:62027**
**Chan, C. M.** *see* **Choy, S. T. B., (2001k:62004)**
**Chang, Yoosoon** Vector autoregressions with unknown mixtures of $I(0)$, $I(1)$, and $I(2)$ components. (English summary) **2001j:62106**
**Chen, Lin-An** (*with* Thompson, Peter; Hung, Hui-Nien) The symmetric type two-stage trimmed least squares estimator for the simultaneous equations model. (English summary) **2001j:62082**
**Chen, Mei-Yuan** (*with* Kuan, Chung-Ming) Testing parameter constancy in models with infinite variance errors. (English summary)
**Chen, Songnian** *see* **Bilias, Yannis et al., 2001i:62053**
**Chen, Yong Ming** Some exact finite-sample results of estimators based on restricted residuals in a class of seemingly unrelated regressions. (Chinese. English and Chinese summaries)
**Chintagunta, Pradeep** (*with* Kyriazidou, Ekaterini; Perktold, Josef) Panel data analysis of household brand choices. (English summary)
**Chong, Tai-leung Terence** Estimating the differencing parameter via the partial autocorrelation function. (English summary)
**Choy, S. T. B.** (*with* Chan, C. M.) Bayesian estimation of stochastic volatility model via scale mixtures distributions. (English summary) (*see* **2001k:62004**)
**Chung, Ching-Fan** Calculating and analyzing impulse responses for the vector ARFIMA model. (English summary)
**Cogley, Timothy** Alternative definitions of the business cycle and their implications for business cycle models. A reply to T. M. Pedersen: "The Hodrick-Prescott filter, the Slutzky effect, and the distortionary effect of filters" [J. Econom. Dynam. Control **25** (2001), no. 8, 1081–1101; 1 834 685].
**Comte, Fabienne** (*with* Lieberman, Offer) Second-order noncausality in multivariate GARCH processes. (English summary) **2001h:62159**
**Critchley, Frank** (*with* Marriott, Paul; Salmon, Mark) An elementary account of Amari's expected geometry. (*see* **2001d:62003**)
**Cushing, Brian J.** *see* **Zheng, Buhong**
**Dalal, Siddhartha R.** *see* **Sherman, Robert P. et al.**
**Davidson, Russell** (*with* Duclos, Jean-Yves) Statistical inference for stochastic dominance and for the measurement of poverty and inequality. (English summary) **2001j:91099**
**Deistler, Manfred** (*with* Wagner, Martin) On the structure of cointegration. (English summary) (*see* **2001e:90004**)
**Del Barrio Castro, Tomás** (*with* Del Sur Mora, Ana; Suriñach Caralt, Jordi) ADF, PP and KPSS test performance for seasonal adjusted time series. (Spanish. English and Spanish summaries)
**Del Sur Mora, Ana** *see* **Del Barrio Castro, Tomás et al.**
**Deo, Rohit S.** Spectral tests of the martingale hypothesis under conditional heteroscedasticity. (English summary) **2001h:62173**
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**Yakir, Benjamin** (*with* Krieger, Abba M.; Pollak, Moshe) Detecting a change in regression: first-order optimality. (English summary) **2001h:62148**

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**Frontiers in statistical quality control** ★ Frontiers in statistical quality control. 6. **2001m:62001**
**Workshop:**
**Intelligent Statistical Quality Control** ★ Frontiers in statistical quality control. 6. **2001m:62001**
**Würzburg** ★ Frontiers in statistical quality control. 6. **2001m:62001**

## 62P99 None of the above, but in this section

**Duval, Sue** (*with* Tweedie, Richard) A nonparametric "trim and fill" method of accounting for publication bias in meta-analysis. (English summary)
**Jaryszak, Eric** *see* **Thompson, Peter et al.**
**Kopociński, Bolesław** Components of the game result in a football league. (English summary)
**Smith, Richard L.** Spatial statistics in environmental science. (*see* **2001m:00024**)

**Thompson, Peter** (*with* Jaryszak, Eric; Wamil, John) Reducing the pairing effect in 4-team double-elimination tournaments. (English summary)
**Tweedie, Richard** *see* **Duval, Sue**
**Wamil, John** *see* **Thompson, Peter et al.**

Items with secondary classifications in 62P99

**Cai, Zongwu** (*with* Naik, Prasad A.; Tsai, Chih-Ling) Denoised least squares estimators: an application to estimating advertising effectiveness. (English summary) **2001j:62033**
**Desmond, A. F.** Prediction functions and geostatistics. (English summary) (*see* **2001m:62003**)
**Elhor, Aicha** (*with* Pensky, Marianna) Bayesian estimation of locations of lightning events. (English summary)
**Farrell, Lisa** (*with* Hartley, Roger; Lanot, Gauthier; Walker, Ian) The demand for lotto: the role of conscious selection. (English summary)
**de Haan, Laurens** (*with* Sinha, Ashoke Kumar) Estimating the probability of a rare event. (English summary) **2001a:62060**
**Hartley, Roger** *see* **Farrell, Lisa et al.**
**Jacobson, Sheldon H.** (*with* Kobza, John E.; Nakayama, Marvin K.) A sampling procedure to estimate risk probabilities in access-control security systems. (English summary)
**Kobza, John E.** *see* **Jacobson, Sheldon H. et al.**
**Kopociński, Bolesław** Unfinished league season of football.
**Lanot, Gauthier** *see* **Farrell, Lisa et al.**
**Naik, Prasad A.** *see* **Cai, Zongwu et al., 2001j:62033**
**Nakayama, Marvin K.** *see* **Jacobson, Sheldon H. et al.**
**Pensky, Marianna** *see* **Elhor, Aicha**
**Robins, James M.** Association, causation, and marginal structural models. (*see* **2001a:00009**)
**Sinha, Ashoke Kumar** *see* **de Haan, Laurens, 2001a:62060**
**Suck, Reinhard** The normal distribution derived from qualitative conditions. (English summary)
**Tsai, Chih-Ling** *see* **Cai, Zongwu et al., 2001j:62033**
**Walker, Ian** *see* **Farrell, Lisa et al.**

## 62Q05 Statistical tables

Items with secondary classifications in 62Q05

**Kokoska, Stephen** *see* **Zwillinger, Daniel, 2001c:62001**
**Zwillinger, Daniel** (*with* Kokoska, Stephen) ★CRC standard probability and statistics tables and formulae. (English summary) **2001c:62001**

Items listed otherwise than by author

**Handbook:**
**Standard probability and statistics tables and formulae** *see* **Zwillinger, Daniel, 2001c:62001**
**Tables:**
**Standard probability and statistics** *see* **Zwillinger, Daniel, 2001c:62001**

# 65–XX Numerical analysis

## 65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

**(Ciarlet, Philippe G.)** *see* **Handbook: Numerical analysis, 2001h:65001**
**(Lions, Jacques-Louis)** *see* **Handbook: Numerical analysis, 2001h:65001**

Items listed otherwise than by author

**Handbook:**
**Numerical analysis** ★ Handbook of numerical analysis. Vol. VII. **2001h:65001**

Items with secondary classifications in 65–00

**Embree, Mark** The most widely cited papers in BIT. (English summary)
**Gradshteĭn, I. S.** (*with* Ryzhik, I. M.) ★ Table of integrals, series, and products. **2001c:00002**
**(Jeffrey, Alan)** *see* **Gradshteĭn, I. S., 2001c:00002**
**(Peyret, Roger)** *see* **Handbook: Computational fluid mechanics, 2001f:76001**
**Ryzhik, I. M.** *see* **Gradshteĭn, I. S., 2001c:00002**
**(Zwillinger, Daniel)** *see* **Gradshteĭn, I. S., 2001c:00002**

Items listed otherwise than by author

**Handbook:**
**Computational fluid mechanics** ★ Handbook of computational fluid mechanics. **2001f:76001**
**Tables:**
**Integrals, series, and products** *see* **Gradshteĭn, I. S., 2001c:00002**

## 65–01 Instructional exposition (textbooks, tutorial papers, etc.)

**Briggs, William L.** (*with* Henson, Van Emden; McCormick, Stephen F.) ★ A multigrid tutorial. (English summary) **2001h:65002**
**Gallier, Jean** ★ Curves and surfaces in geometric modeling. (English summary) **2001m:65001**
**Henson, Van Emden** *see* **Briggs, William L. et al., 2001h:65002**
**Hermann, Martin** ★ Numerische Mathematik. (German. German summary) [Numerical mathematics] **2001m:65002**
**Konstantinov, Mikhail M.** (*with* V$^{a}$lchanov, Nikolaĭ Lyubomirov) ★ Съвременни математически методи за компютърни пресмятания. Част 2. (Bulgarian. Bulgarian summary) [Modern mathematical methods for computer calculations. Part 2] **2001g:65004**
— *see also* **V$^{a}$lchanov, Nikolaĭ Lyubomirov, 2001g:65003**
**McCormick, Stephen F.** *see* **Briggs, William L. et al., 2001h:65002**
**Meister, Andreas[2]** ★ Numerik linearer Gleichungssysteme. (German. German summary) [Numerics of systems of linear equations] **2001g:65001**
**Plato, Robert** ★ Numerische Mathematik kompakt. (German. German summary) [Numerical mathematics in compact form]
**Rabinowitz, Philip** *see* **Ralston, Anthony, 2001k:65001**
**Ralston, Anthony** (*with* Rabinowitz, Philip) ★ A first course in numerical analysis. (English summary) **2001k:65001**
**Sizikov, V. S.** ★ Математические методы обработки результатов измерений. (Russian. Russian summary) [Mathematical methods for processing the results of measurements]
**Trefethen, Lloyd N.** ★ Spectral methods in MATLAB. **2001c:65001**
**Varga, Richard S.** ★ Matrix iterative analysis. (English summary) **2001g:65002**
**V$^{a}$lchanov, Nikolaĭ Lyubomirov** (*with* Konstantinov, Mikhail M.) ★ Съвременни математически методи за компютърни пресмятания. Част 1. (Bulgarian. Bulgarian summary) [Modern mathematical methods for computer calculations. Part 1] **2001g:65003**
— *see also* **Konstantinov, Mikhail M., 2001g:65004**

Items with secondary classifications in 65–01

**Bradley, David M.** Using integral transforms to estimate higher order derivatives. **2001m:26002**
**Braess, Dietrich** ★ Finite elements. (English summary) **2001k:65002**
**Haslinger, Jaroslav** (*with* Miettinen, Markku; Panagiotopoulos, Panagiotis D.) ★ Finite element method for hemivariational inequalities. (English summary) **2001g:65006**
**Lynch, Stephen** ★ Dynamical systems with applications using MAPLE. (English summary) **2001k:37001**
**Mbiock, Aristide** (*with* Weber, Roman) ★ Radiation in enclosures. (English summary) **2001f:35001**
**Miettinen, Markku** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**Panagiotopoulos, Panagiotis D.** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**(Schumaker, Larry L.)** *see* **Braess, Dietrich, 2001k:65002**
**Weber, Roman** *see* **Mbiock, Aristide, 2001f:35001**

## 65–02 Research exposition (monographs, survey articles)

**Ageev, A. L.** *see* **Vasin, V. V., 2001j:65001**
**Arsen′ev, D. G.** (*with* Ivanov, Vladimir M.; Kul′chitskiĭ, O. Yu.) ★ Adaptive methods of computing mathematics and mechanics. **2001c:65002**
**Ashyralyev, Ch.** ★ Численные алгоритмы решения сингулярных интегральных уравнений в гидродинамике. (Russian. Russian summary) [Numerical algorithms for solving singular integral equations in fluid dynamics]
**(Bai, Zhaojun)** *see* **Templates for the solution of algebraic eigenvalue problems, 2001k:65003**
**Belov, V. M.** (*with* Sukhanov, V. A.; Unger, F. G.) ★ Теоретические и прикладные аспекты метода центра неопределенности. (Russian. English and Russian summaries) [Theoretical and applied aspects of the indeterminacy center method]
**Braess, Dietrich** ★ Finite elements. (English summary) **2001k:65002**
**(Butenina, D. V.)** *see* **Arsen′ev, D. G. et al., 2001c:65002**
**(Demmel, James W.)** *see* **Templates for the solution of algebraic eigenvalue problems, 2001k:65003**
**(Dongarra, Jack J.)** *see* **Templates for the solution of algebraic eigenvalue problems, 2001k:65003**
**Farrell, P. A.** (*with* Hegarty, A. F.; Miller, J. J. H.; O'Riordan, E.; Shishkin, Grigorii I.) ★ Robust computational techniques for boundary layers. (English summary) **2001c:65003**
**Gabdulkhaev, B. G.** ★ Численный анализ сингулярных интегральных уравнений. (Russian. Russian summary) [Numerical analysis of singular integral equations] **2001g:65005**
**Gilyazov, S. F.** (*with* Gol′dman, N. L.) ★ Regularization of ill-posed problems by iteration methods. (English summary) **2001b:65001**
**Gol′dman, N. L.** *see* **Gilyazov, S. F., 2001b:65001**
**Govaerts, Willy J. F.** ★ Numerical methods for bifurcations of dynamical equilibria. (English summary) **2001b:65002**
**Griewank, Andreas** ★ Evaluating derivatives. (English summary) **2001b:65003**
**Haslinger, Jaroslav** (*with* Miettinen, Markku; Panagiotopoulos, Panagiotis D.) ★ Finite element method for hemivariational inequalities. (English summary) **2001g:65006**
**Hegarty, A. F.** *see* **Farrell, P. A. et al., 2001c:65003**
**Ivanov, Vladimir M.** *see* **Arsen′ev, D. G. et al., 2001c:65002**
**(Korenevskiĭ, M. L.)** *see* **Arsen′ev, D. G. et al., 2001c:65002**
**Kravanja, Peter** (*with* Van Barel, Marc) ★ Computing the zeros of analytic functions. **2001c:65004**
**Kul′chitskiĭ, O. Yu.** *see* **Arsen′ev, D. G. et al., 2001c:65002**
**Kuznetsov, E. B.** *see* **Shalashilin, V. I., 2001i:65002**
**Lax, Peter D.** Mathematics and computing. **2001e:65001**
**Mehl, Gabriele** ★ Approximation von Flächen mit hoher Genauigkeit. (German) [Highly accurate approximation of surfaces] **2001b:65004**
**Mei, Zhen** ★ Numerical bifurcation analysis for reaction-diffusion equations. (English summary) **2001h:65003**
**Miettinen, Markku** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**Mikhailov, G. A.** ★ Parametric estimates by the Monte Carlo method. **2001a:65001**
**Miller, J. J. H.** *see* **Farrell, P. A. et al., 2001c:65003**
**Neunzert, Helmut** (*with* Siddiqi, Abul Hasan) ★ Topics in industrial mathematics. (English summary) **2001g:65007**
**O'Riordan, E.** *see* **Farrell, P. A. et al., 2001c:65003**
**Panagiotopoulos, Panagiotis D.** *see* **Haslinger, Jaroslav et al., 2001g:65006**
**Ritter, Klaus** ★ Average-case analysis of numerical problems. **2001i:65001**
**(Ruhe, Axel)** *see* **Templates for the solution of algebraic eigenvalue problems, 2001k:65003**
**(Schumaker, Larry L.)** *see* **Braess, Dietrich, 2001k:65002**
**Sha, Desong** *see* **Tamma, K. K. et al., 2001d:65001**
**Shalashilin, V. I.** (*with* Kuznetsov, E. B.) ★ Метод продолжения решения по параметру и наилучшая параметризация в прикладной математике и механике. (Russian. Russian summary) [The method of continuation of the solution with respect to the parameter and best parametrization in applied mathematics and mechanics] **2001i:65002**
**Shishkin, Grigorii I.** *see* **Farrell, P. A. et al., 2001c:65003**
**Siddiqi, Abul Hasan** *see* **Neunzert, Helmut, 2001g:65007**
**(Sokolov, A. P.)** *see* **Arsen′ev, D. G. et al., 2001c:65002**
**Sukhanov, V. A.** *see* **Belov, V. M. et al.**
**Tamma, K. K.** (*with* Zhou, Xiangmin; Sha, Desong) The time dimension: a theory towards the evolution, classification, characterization and design of computational algorithms for transient/dynamic applications. (English summary) **2001d:65001**
**Unger, F. G.** *see* **Belov, V. M. et al.**
**Van Barel, Marc** *see* **Kravanja, Peter, 2001c:65004**
**(Van der Vorst, Henk A.)** *see* **Templates for the solution of algebraic eigenvalue problems, 2001k:65003**
**Vasin, V. V.** (*with* Ageev, A. L.) ★ Некорректные задачи с априорной информацией. (Russian. Russian summary) [Ill-posed problems with a priori information] **2001j:65001**
**Wen, Guo Chun** ★ Approximate methods and numerical analysis for elliptic complex equations. (English summary) **2001g:65008**
**Zhou, Xiangmin** *see* **Tamma, K. K. et al., 2001d:65001**

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**Lecture Notes in Mathematics** *see* **Kravanja, Peter, 2001c:65004** *and* **Ritter, Klaus, 2001i:65001**
**Templates for the solution of algebraic eigenvalue problems** ★ Templates for the solution of algebraic eigenvalue problems. **2001k:65003**

Items with secondary classifications in 65–02

**Bramble, James H.** (*with* Zhang, Xuejun) The analysis of multigrid methods. **2001m:65183**
**Chatterjee, Arindam** *see* **Volakis, John L. et al., 2001j:78037**
**Chen-Charpentier, Benito** *see* **Kojouharov, Hristo V.**
**Cockburn, Bernardo** An introduction to the discontinuous Galerkin method for convection-dominated problems. (English summary) **2001f:65117**
**Cools, R.** (*with* Mysovskikh, I. P.; Schmid, H. J.) Cubature formulae and orthogonal polynomials. (English summary) **2001j:65039**
**Dervieux, Alain** About the basic numerical methods. (*see* **2001f:76001**)
**Dongarra, Jack J.** (*with* Eijkhout, Victor) Numerical linear algebra algorithms and software. (English summary) **2001j:65002**
**Eijkhout, Victor** *see* **Dongarra, Jack J., 2001j:65002**
**Galántai, Aurél** The theory of Newton's method. (English summary) (*see* **2001g:65011**)
**Golub, Gene H.** (*with* Van der Vorst, Henk A.) Eigenvalue computation in the 20th century. (English summary) **2001j:65064**
**Groetsch, Charles W.** Regularization and stabilization of inverse problems. (English summary) **2001j:65098**
**Hairer, Ernst** (*with* Wanner, Gerhard) Order stars and stiff integrators. (English summary) **2001k:65124**
**Jbilou, K.** (*with* Sadok, H.) Vector extrapolation methods. Applications and numerical comparison. (English summary) **2001h:65009**

**Kempel, Leo C.** *see* **Volakis, John L. et al., 2001j:78037**
**Kojouharov, Hristo V.** (*with* Chen-Charpentier, Benito) Nonstandard methods for advection-diffusion-reaction equations.
**Kreinovich, Vladik** *see* **Nguyen, Hung Trung, 2001g:68001**
**Kwak, Do Young** Multigrid method: brief survey and recent development. (English summary) **2001a:65159**
— Multigrid method brief survey and recent development. (English summary)
**Lang, Jens[1]** ★ Adaptive multilevel solution of nonlinear parabolic PDE systems. (English summary) **2001i:65106**
**Laurie, Dirk P.** Computation of Gauss-type quadrature formulas. (English summary) **2001k:65051**
**Lorentz, Rudolph** Multivariate Hermite interpolation by algebraic polynomials: a survey. (English summary) **2001k:41034**
**Mickens, Ronald E.** Nonstandard finite difference schemes. (English summary)
**Mysovskikh, I. P.** *see* **Cools, R. et al., 2001j:65039**
**Nash, Stephen G.** A survey of truncated-Newton methods. (English summary) (*see* **2001g:65011**)
**Nguyen, Hung Trung** (*with* Kreinovich, Vladik) ★ Applications of continuous mathematics to computer science. (English summary) **2001g:68001**
**Rheinboldt, Werner C.** Numerical continuation methods: a perspective. (English summary) (*see* **2001g:65011**)
**Saad, Youcef** (*with* Van der Vorst, Henk A.) Iterative solution of linear systems in the 20th century. (English summary) **2001j:65057**
**Sadok, H.** *see* **Jbilou, K., 2001h:65009**
**Sait, Sadiq M.** (*with* Youssef, Habib) ★ Iterative computer algorithms with applications in engineering. (English summary) **2001m:90001**
**Santos, Luis Carlos de Castro** ★ Métodos numéricos para escoamentos em alta velocidade. (Portuguese) [Numerical methods for rapid flows] **2001m:76066**
**Schmid, H. J.** *see* **Cools, R. et al., 2001j:65039**
**Shu, Chi-Wang** Essentially non-oscillatory and weighted essentially non-oscillatory schemes for hyperbolic conservation laws. (English summary) **2001a:65096**
**Spedicato, Emilio** (*with* Xia, Zun Quan; Zhang, Li Wei) ABS algorithms for linear equations and optimization. (English summary) (*see* **2001g:65011**)
**Stenger, Frank** Summary of Sinc numerical methods. (English summary) **2001d:65018**
**Tadmor, Eitan** Approximate solutions of nonlinear conservation laws. (English summary) **2001d:65100**
**Van der Vorst, Henk A.** *see* **Saad, Youcef, 2001j:65057** *and* **Golub, Gene H., 2001j:65064**
**Volakis, John L.** (*with* Chatterjee, Arindam; Kempel, Leo C.) ★ Finite element method for electromagnetics. (English summary) **2001j:78037**
**Wanner, Gerhard** *see* **Hairer, Ernst, 2001k:65124**
**Xia, Zun Quan** *see* **Spedicato, Emilio et al., 2001g:65011**
**Youssef, Habib** *see* **Sait, Sadiq M., 2001m:90001**
**Zhang, Li Wei** *see* **Spedicato, Emilio et al., 2001g:65011**
**Zhang, Xuejun** *see* **Bramble, James H., 2001m:65183**

## 65–03 Historical (must also be assigned at least one classification number from Section 01)

**Andrew, Alan L.** Twenty years of asymptotic correction for eigenvalue computation. (English summary) (*see* **2001i:65004**)
**Brezinski, Claude** Convergence acceleration during the 20th century. (*see* **2001e:41001**)
**Butcher, John C.** Numerical methods for ordinary differential equations in the 20th century. (English summary) **2001k:65004**
**Embree, Mark** The most widely cited papers in BIT. (English summary)
**Nievergelt, Yves** A tutorial history of least squares with applications to astronomy and geodesy. (English summary) **2001e:65002**
**Yamamoto, Tetsuro** Historical developments in convergence analysis for Newton's and Newton-like methods. (English summary) (*see* **2001g:65011**)

### Items with secondary classifications in 65–03

**Baker, George A., Jr.** The once and future role for approximate calculations. **2001h:01002**
**Brass, Helmut** Quadraturtheorie—Konzepte und Resultate. (German summary) [Quadrature theory—concepts and results]
**(Clegg, Elizabeth)** *see* **Ifrah, Georges, 2001k:01003**
**(Harding, E. F.)** *see* **Ifrah, Georges, 2001k:01003**
**Ifrah, Georges** ★ The universal history of computing. (English summary) **2001k:01003**
**(Katahiro, Takebe)** *see* **Xu, Zelin, 2001c:01009**
**Lax, Peter D.** Mathematics and computing. **2001e:65001**
**Markov, Svetoslav M.** The mystery of intervals.
**(Monk, Ian)** *see* **Ifrah, Georges, 2001k:01003**
**Tournès, Dominique** Pour une histoire du calcul graphique. [Toward a history of graphical calculation] **2001k:01005**
**(Waldman, Guido)** *see* **Ifrah, Georges, 2001k:01003**
**(Wood, Sophie)** *see* **Ifrah, Georges, 2001k:01003**
**Xu, Zelin** Takebe Katahiro and Romberg algorithm. **2001c:01009**

## 65–04 Explicit machine computation and programs (not the theory of computation or programming)

**Ashcraft, Cleve** (*with* Grimes, Roger) SPOOLES: an object-oriented sparse matrix library. (*see* **2001m:65006**)
**Carminati, John** (*with* Vu, Khai) Symbolic computation and differential equations: Lie symmetries. (English summary) **2001c:65005**
**Choe, Won Gyu** (*with* Guckenheimer, John) Using dynamical system tools in Matlab. (*see* **2001b:65008**)
**Corless, Robert M.** *see* **Shampine, L. F., (2001i:00025)**
**Culver, Tim** *see* **Keyser, John et al., (2001g:68004)**
**Dongarra, Jack J.** (*with* Waśniewski, Jerzy) High performance linear algebra package—LAPACK90. (English summary) (*see* **2001d:68002**)
— (*with* Eijkhout, Victor) Numerical linear algebra algorithms and software. (English summary) **2001j:65002**
**Eijkhout, Victor** *see* **Dongarra, Jack J., 2001j:65002**
**Fotiadis, Dimitrios** *see* **Lagaris, I. E. et al., (2001f:35005)**
**Grimes, Roger** *see* **Ashcraft, Cleve, (2001m:65006)**
**Guckenheimer, John** *see* **Choe, Won Gyu, (2001b:65008)**
**Higham, Desmond J.** (*with* Higham, Nicholas J.) ★ MATLAB guide. (English summary) **2001e:65003**
**Higham, Nicholas J.** *see* **Higham, Desmond J., 2001e:65003**
**Imai, Hitoshi** *see* **Tarmizi et al., (2001d:00041)**
**Keyser, John** (*with* Culver, Tim; Manocha, Dinesh; Krishnan, Shankar) MAPC: a library for efficient and exact manipulation of algebraic points and curves. (English summary) (*see* **2001g:68004**)
**Krishnan, Shankar** *see* **Keyser, John et al., (2001g:68004)**
**Kushida, Masahiro** *see* **Tarmizi et al., (2001d:00041)**
**Lagaris, I. E.** (*with* Likas, Aristidis; Fotiadis, Dimitrios; Massalas, Christos V.) A hardware implementable non-linear method for the solution of ordinary, partial and integrodifferential equations. (*see* **2001f:35005**)
**Likas, Aristidis** *see* **Lagaris, I. E. et al., (2001f:35005)**
**Manocha, Dinesh** *see* **Keyser, John et al., (2001g:68004)**
**Massalas, Christos V.** *see* **Lagaris, I. E. et al., (2001f:35005)**
**Mehlhorn, Kurt** (*with* Schirra, Stefan) Exact computation with `leda_real`—theory and geometric applications. (*see* **2001m:65007**)
**Monagan, Michael B.** *see* **Villard, Dominique**
**Paul, Christopher A. H.** Designing efficient software for solving delay differential equations. (English summary) (*see* **2001i:00025**)
**Schirra, Stefan** *see* **Mehlhorn, Kurt, (2001m:65007)**
**Shampine, L. F.** (*with* Corless, Robert M.) Initial value problems for ODEs in problem solving environments. (English summary) (*see* **2001i:00025**)
**Takeuchi, Toshiki** *see* **Tarmizi et al., (2001d:00041)**
**Tarmizi** (*with* Imai, Hitoshi; Takeuchi, Toshiki; Kushida, Masahiro) Numerical simulation of one-phase Stefan problems in arbitrary precision. (*see* **2001d:00041**)
**Villard, Dominique** (*with* Monagan, Michael B.) ADrien: an implementation of automatic differentiation in Maple. (English summary)
**Vivaldi, Franco** ★ Experimental mathematics with Maple. (English summary)
**Vu, Khai** *see* **Carminati, John, 2001c:65005**
**Waśniewski, Jerzy** *see* **Dongarra, Jack J., (2001d:68002)**
**Winkler, Franz** Advances and problems in algebraic computation. (English summary) **2001d:65002**

### Items with secondary classifications in 65–04

**Abdullah, Abdul Rahman** *see* **Othman, Mohamed Bin**
**Adams, John C.** (*with* Smolarkiewicz, Piotr K.) Modified multigrid for 3D elliptic equations with cross-derivatives. (English summary)
**Adeniyi, R. B.** (*with* Olugbara, O. O.; Taiwo, O. A.) Generic algorithms for solving O.D.E. using the tau method with an error estimation. (English summary) **2001h:65076**
**Aliabadi, M. Hosseini** The Buchstab's function and the operational tau method. (English summary) **2001f:65081**
**Andersson, Niclas** (*with* Fritzson, Peter) Object oriented mathematical modelling and compilation to parallel code. (English summary) (*see* **2001d:00014**)
**Badía Contelles, José M.** (*with* Vidal Maciá, Antonio M.) Exploiting the Laguerre iteration for solving the symmetric tridiagonal eigenproblem. (Spanish. English and Spanish summaries)
**Bellomo, Nicola** (*with* De Angelis, Elena; Graziano, L.; Romano, Antonio) Solution of nonlinear problems in applied sciences by generalized collocation methods and Mathematica. (English summary)
**Blümlein, Johannes** Analytic continuation of Mellin transforms up to two-loop order. (English summary) **2001j:65200**
**(Bona, Jerry L.)** *see* **Nonlinear waves: computation and theory, 2001j:65006**
**(de Bouard, A.)** *see* **Nonlinear waves: computation and theory, 2001j:65006**
**Butcher, John C.** (*with* Singh, A. D.) The choice of parameters in parallel general linear methods for stiff problems. (English summary) **2001g:65081**
**Cheung, C. W.** (*with* Lai, Choi-Hong) On a flexible elimination algorithm with applications to panel element equations. (English summary)
**Chyzak, Frédéric** Gröbner bases, symbolic summation and symbolic integration. (English summary) **2001a:68115**
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**San Antonio, TX** ★ Proceedings of the Ninth SIAM Conference on Parallel Processing for Scientific Computing 1999. **2001m:65006**
**Schloss Dagstuhl** ★ Subdivision algorithms.
**Selected papers from the Sixth International Meshing Roundtable** ★ Selected papers from the Sixth International Meshing Roundtable. Part II. **2001e:65004**
**Self-validating numerical methods and related topics** ★ Seido hoshō tsuki sūchi keisanhō to sono shūhen. (Japanese) [Self-validating numerical methods and related topics] **2001f:65006**
**Seminar:**
**Monte Carlo Methods** ★ The Second IMACS Seminar on Monte Carlo Methods.
**Numerical Mathematics** ★ Advances in numerical mathematics; Proceedings of the Fourth Japan-China Joint Seminar on Numerical Mathematics. **2001b:65005**
**Sofia** ★ Advances in numerical methods and applications. **2001f:65001**
— ★ Recent advances in numerical methods and applications. II. **2001d:65007**
**Sophia-Antipolis** ★ Selected papers from the Workshop on Geometric Computing. **2001j:65008**
**Sozopol** ★ Large-scale scientific computations of engineering and environmental problems. II. **2001c:65006**
**Special Issue:**
**Interface of parallel computing and statistics, economics, finance and optimization** ★ {Interface of parallel computing and statistics, economics, finance and optimization}. **2001f:65002**
**Linear algebra in self-validating methods** ★ Special issue on linear algebra in self-validating methods. **2001i:65005**
**Numerical analysis 2000** ★ Numerical analysis 2000. Vol. III. Linear algebra. **2001f:65003**
**Subdivision algorithms** ★ Subdivision algorithms.
**Symbolic algebraic methods and verification methods** ★ Symbolic algebraic methods and verification methods. **2001m:65007**
**Symposium:**
**Computational Sciences** ★ 1999 International Symposium on Computational Sciences, to honor John R. Rice. **2001h:65004**
**Numerical Solution of Partial Differential Equations and Related Topics** ★ Hembibum hōteishiki no sūchi kaihō to sono shūhen. [Numerical solution of partial differential equations and related topics] **2001f:65004**
**Scientific Computing, Computer Arithmetic and Validated Numerics** ★ Developments in reliable computing. **2001b:65007a**
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**Unstructured Mesh Generation** ★ Unstructured mesh generation. **2001e:65005**
**Toronto, ON** ★ Monte Carlo methods. **2001d:65005**
**Unstructured mesh generation** ★ Unstructured mesh generation. **2001e:65005**
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**Workshop:**
**Computational Geometry** ★ 14th European Workshop on Computational Geometry CG'98. **2001h:65005**
**Geometric Computing** ★ Selected papers from the Workshop on Geometric Computing. **2001j:65008**
**Interval Applications to Systems and Control** ★ Modal intervals and its applications. **2001m:65004**
**Large Scale Dynamical Systems** ★ Numerical methods for bifurcation problems and large-scale dynamical systems. **2001b:65008**
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**Monte Carlo Methods** ★ Monte Carlo methods. **2001d:65005**
**Multigrid Methods** ★ International GAMM-Workshop on Multigrid Methods. **2001d:65009**
**Numerical Methods for Bifurcation Problems** ★ Numerical methods for bifurcation problems and large-scale dynamical systems. **2001b:65008**
**Numerical Methods for Transport-dominated and Related Problems** ★ Archives for scientific computing. Numerical methods for transport-dominated and related problems. **2001j:65004**
**Numerical Ordinary Differential Equations** ★ Auckland numerical ordinary differential equations. **2001b:65006**
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**(Astley, R. Jeremy)** *see* **Finite elements for wave problems, 2001a:76004**
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**(Benzi, Michele)** *see* **Conference: Birthday of Plemmons, Robert J., 2001d:00055**
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**(Bermúdez de Castro, Alfredo)** *see* **Mathematical and numerical aspects of wave propagation, 2001e:00021**
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**(Chartier, P.)** *see* **Sparse matrices and differential equations, 2001h:76005**
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**(Ciarlet, Philippe G.)** *see* **Handbook: Numerical analysis, 2001h:65001**
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**(Galdi, Giovanni Paolo)** *see* **Fundamental directions in mathematical fluid mechanics, 2001f:76004**
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**(Henry, Daniel Pierre)** *see* **Continuation methods in fluid dynamics, 2001c:76002**
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**(Kholodov, A. S.)** *see* **New results in numerical modeling: algorithms, computational experiments, results, 2001d:00013**
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**(Pedreira, Dolores G.)** *see* **Mathematical and numerical aspects of wave propagation, 2001e:00021**
**(Philippe, B.)** *see* **Sparse matrices and differential equations, 2001h:76005**
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**(Rannacher, Rolf)** *see* **Fundamental directions in mathematical fluid mechanics, 2001f:76004**
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**(Roberts, Jean E.)** *see* **Mathematical and numerical aspects of wave propagation, 2001e:00021**
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**Theory of Computing** ★ Annual ACM Symposium on Theory of Computing. **2001f:68004**
**Adelaide** ★ Computational techniques and applications: CTAC97. **2001d:00032**

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**Plemmons, Robert James** ★ Conference Celebrating the 60th Birthday of Robert J. Plemmons. **2001d:00055**
**Collected Works:**
**Olver, Frank William John** *see* **Olver, Frank William John, 2001g:01051**
**Colloquium:**
**Continuation Methods in Fluid Dynamics** ★ Continuation methods in fluid dynamics. **2001c:76002**
**Complexity theory, real machines, and homotopy** ★ {Complexity theory, real machines, and homotopy}. **2001d:00031**
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**Conference:**
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**Meeting:**
**American Mathematical Society** ★ Approximation in mathematics. **2001b:41001**
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**Finite Element Methods for Wave Propagation** ★ Finite elements for wave problems. **2001a:76004**
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**Proceedings:**
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**Proceedings:** (*cont'd.*)
**Rennes** ★ Sparse matrices and differential equations. **2001h:76005**
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**Santiago de Compostela** ★ Mathematical and numerical aspects of wave propagation. **2001e:00021**
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**Selected papers of F. W. J. Olver** *see* **Olver, Frank William John, 2001g:01051**
**Seminar:**
**Computational Techniques Applied to Industrial Problems (Sparse Matrices and Differential Equations)** ★ Sparse matrices and differential equations. **2001h:76005**
**Session:**
**Approximation in Mathematics** ★ Approximation in mathematics. **2001b:41001**
**Sozopol** ★ Applications of mathematics in engineering and economics. **2001c:00014**
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**Symposium:**
**Research on the Theory and Applications of Computer Algebra** ★ Sûshiki shori ni okeru riron to ôyô no kenkyû. (Japanese) [Research on the theory and applications of computer algebra] **2001d:00048**
**Trieste** ★ Finite elements for wave problems. **2001a:76004**
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**Workshop:**
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## 65A05 Tables

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**Gradshteĭn, I. S.** (*with* Ryzhik, I. M.) ★ Table of integrals, series, and products. **2001c:00002**
**Hosoya, Haruo** *see* **Maruyama, Yukiko et al.**
**(Jeffrey, Alan)** *see* **Gradshteĭn, I. S., 2001c:00002**
**Maruyama, Yukiko** (*with* Satoh, Kaori; Hosoya, Haruo) Tables of Cartesian coordinates of semiregular polyhedra and two rhombic polyhedra. (English summary)
**Ryzhik, I. M.** *see* **Gradshteĭn, I. S., 2001c:00002**
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**(Zwillinger, Daniel)** *see* **Gradshteĭn, I. S., 2001c:00002**

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## 65Bxx Acceleration of convergence

### 65B05 Extrapolation to the limit, deferred corrections

**Brezinski, Claude** Difference and differential equations and convergence acceleration algorithms. **2001g:65013**
**Bultheel, Adhemar** *see* **Levrie, Paul, 2001e:65006**
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## 65B10 Summation of series

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## 65B15 Euler-Maclaurin formula

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## 65B99 None of the above, but in this section

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# 65Cxx Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35.}

## 65C05 Monte Carlo methods

**Aleksandrov, V. N.** *see* **Taft, K. et al., (2001d:65007)**
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## 65C10 Random number generation

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**Zhdanov, A. I.** (*with* Shamarov, P. A.) The direct projection method in the problem of complete least squares. (Russian. Russian summary) **2001k:65023**
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**Angelova, D. S.** *see* **Jilkov, V. P. et al., (2001d:65007)**
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**Anh, Vo** (*with* Grecksch, Wilfried; Angulo, J. M.; Ruiz-Medina, M. D.) The Wiener-Hopf integral equation for fractional Riesz-Bessel motion. (English summary) **2001j:45007**
**Asmussen, Søren** (*with* Binswanger, Klemens; Højgaard, Bjarne) Rare events simulation for heavy-tailed distributions. (English summary) **2001g:60226**
**Bakin, Sergey** (*with* Hegland, Markus; Osborne, Michael R.) Parallel MARS algorithm based on $B$-splines. (English summary)
**Barlow, Jesse L.** Stable computation with the fundamental matrix of a Markov chain. (English summary) **2001f:65047**
**Bertram-Kretzberg, Claudia** (*with* Lefmann, Hanno) $\mathrm{MOD}_p$-tests, almost independence and small probability spaces. (English summary) **2001j:68144**
**Binswanger, Klemens** *see* **Asmussen, Søren et al., 2001g:60226**
**Bose, Christopher** (*with* Murray, Rua) The exact rate of approximation in Ulam's method. (English summary) **2001m:28028**
**Buchholz, Peter** (*with* Ciardo, Gianfranco; Donatelli, Susanna; Kemper, Peter) Complexity of memory-efficient Kronecker operations with applications to the solution of Markov models. (English summary) **2001d:65065**
**Catoni, Olivier** Simulated annealing algorithms and Markov chains with rare transitions. (English and French summaries) **2001g:60167**
**Charikar, Moses** (*with* Kumar, S. Ravi; Raghavan, Prabhakar; Rajagopalan, Sridhar; Tomkins, Andrew) On targeting Markov segments. (English summary) (*see* **2001f:68004**)
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**Darolles, Serge** (*with* Laurent, Jean Paul) Approximating payoffs and pricing formulas. (English summary) **2001h:91043**
**Dayar, Tuğrul** (*with* Stewart, William J.) Comparison of partitioning techniques for two-level iterative solvers on large, sparse Markov chains. (English summary) (*see* **2001d:65004**)
**Delampady, Mohan** Robust Bayesian outlier detection. (English summary) **2001k:62036**
**Del Moral, Pierre** (*with* Doisy, M.) Maslov idempotent probability calculus. II. (Russian summary) **2001g:60005**
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**Dimov, Ivan T.** Monte Carlo algorithms for linear problems. **2001k:65011**
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**Eberly, Wayne** (*with* Kaltofen, Erich) On randomized Lanczos algorithms. (English summary) (*see* **2001i:68010**)
**Eibeck, Andreas** (*with* Wagner, Wolfgang[1]) An efficient stochastic algorithm for studying coagulation dynamics and gelation phenomena. (English summary) **2001e:82037**
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**Gertsbakh, Ilya** (*with* Spungin, I.) Product-type estimator of convolutions. (English summary) (*see* **2001a:60002**)
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**Grecksch, Wilfried** *see* **Anh, Vo et al., 2001j:45007**
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**Griebel, Michael** (*with* Schweitzer, Marc Alexander) A particle-partition of unity method for the solution of elliptic, parabolic, and hyperbolic PDEs. (English summary) **2001i:65105**
**Gwinner, Joachim** A class of random variational inequalities and simple random unilateral boundary value problems—existence, discretization, finite element approximation. (English summary) **2001i:49020**
**Hansen, Asbjørn T.** (*with* Poulsen, Rolf) A simple regime switching term structure model. (English summary) **2001h:91045**
**Hartvig, Niels Væver** (*with* Jensen, Jens Ledet; Pedersen, Jan) A class of risk neutral densities with heavy tails. (English summary) **2001i:60127**
**Hausenblas, Erika** A numerical scheme using excursion theory for simulating stochastic differential equations with reflection and local time at a boundary. (English summary) **2001g:60143**
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**Herkenrath, Ulrich** Generalized adaptive exponential smoothing of observations from an ergodic hidden Markov model. (English summary) **2001e:60145**
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**Higham, Desmond J.** $A$-stability and stochastic mean-square stability. (English summary) **2001e:60115**
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**Hillen, Thomas** (*with* Othmer, Hans G.) The diffusion limit of transport equations derived from velocity-jump processes. (English summary) **2001m:35302**
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**Ito, Kazufumi** (*with* Xiong, Kaiqi) Gaussian filters for nonlinear filtering problems. (English summary) **2001d:93088**
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**Kemper, Peter** *see* **Buchholz, Peter et al., 2001d:65065**
**Kohatsu Higa, Arturo** Weak approximations. A Malliavin calculus approach. (English summary) **2001f:60061**
**Kordzakhia, Nino** *see* **Novikov, Alex et al., 2001f:60090**
**Kozachenko, Yu. V.** (*with* Pashko, A. A.) The accuracy of modeling random processes in norms of Orlicz spaces. I. (Ukrainian. Ukrainian summary) **2001f:60057**
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**Kryuchkov, A. F.** *see* **Sirenek, V. A., 2001g:35149**
**Kumar, S. Ravi** *see* **Charikar, Moses et al., (2001f:68004)**
**Kushner, Harold J.** (*with* Dupuis, Paul) ★ Numerical methods for stochastic control problems in continuous time. (English summary) **2001g:93002**
**Kuske, Rachel** Gradient-particle solutions of Fokker-Planck equations for noisy delay bifurcations. (English summary) **2001f:65152**
**Lamotte, J.-L.** *see* **Alt, René, 2001m:65066**
**Laurent, Jean Paul** *see* **Darolles, Serge, 2001h:91043**
**Lefmann, Hanno** *see* **Bertram-Kretzberg, Claudia, 2001j:68144**
**Li, Chunwah** (*with* Liu, Xiao Qing[2]) Almost sure convergence of the numerical discretization of stochastic jump diffusions. (English summary) **2001m:60133**
**Lillo, Rosa E.** (*with* Neuts, Marcel F.) Empirical optimization in a reliability problem. (English summary)
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**Lovász, László** (*with* Kannan, Ravi) Faster mixing via average conductance. (English summary) **2001i:68179**
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**Marti, Kurt** (*with* Tret'yakov, G. L.) An algorithm for the approximate solution of the maximization problem for a probability function on the basis of a star-shaped approximation. (Russian. Russian summary) **2001i:90051**
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**Pertsev, N. V.** A probabilistic model of the dynamics of interacting particles with limited life span. (Russian. English summary) (*see* **2001a:00015**)
**Poloskov, I. E.** The generalized integrator method and its application in the analysis of linear stochastic systems with multiplicative perturbations. (Russian. Russian summary) (*see* **2001d:00016**)
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**Raghavan, Prabhakar** *see* **Charikar, Moses et al., (2001f:68004)**
**Rajagopalan, Sridhar** *see* **Charikar, Moses et al., (2001f:68004)**
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**Rubinstein, Reuven** The cross-entropy method for combinatorial and continuous optimization. (English summary) **2001i:90127**
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**Shardlow, Tony** (*with* Stuart, Andrew) A perturbation theory for ergodic Markov chains and application to numerical approximations. (English summary) **2001g:60172**
**Sirenek, V. A.** (*with* Kryuchkov, A. F.) A probabilistic solution of the initial-boundary value problem for a hyperbolic mass transport equation. (Russian. English and Russian summaries) **2001g:35149**
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**Voltishek, A. V.** ★ Дискретно-стохастические процедуры глобальной оценки решения интегрального уравнения второго рода. Общие вопросы. (Russian. English and Russian summaries) [Discrete-stochastic procedures for the global estimation of the solution of an integral equation of the second kind. General questions]
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**Wang, Hui** *see* **Glasserman, Paul, 2001g:91061**
**Wang, Xiao** (*with* Xie, Jian Ying; Jia, Qing) New modified integrated algorithm for structure determination and parameter estimation of nonlinear stochastic systems. (Chinese. English and Chinese summaries)
**Wang, Xiao-Tian** (*with* Qiu, Wei Yuan; Ren, Fu-Yao) Option pricing of fractional version of the Black-Scholes model with Hurst exponent $H$ being in $(\frac{1}{2}, \frac{1}{2})$. (English summary) **2001m:91105**
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**Bart, A. G.** (*with* Alexeyeff, N. P.; Bochkina, Natalia) Partially inversion of functions for statistical modelling of regulatory systems. (English summary) (*see* **2001d:62002**)
**Bochkina, Natalia** *see* **Bart, A. G. et al., (2001d:62002)**
**Bulychev, Yu. G.** (*with* Eliseev, A. V.; Lapsar', A. P.) A problem of stiffness for stochastic equations. (Russian. English and Russian summaries) **2001c:65011**
**Eliseev, A. V.** *see* **Bulychev, Yu. G. et al., 2001c:65011**
**Kanungo, Tapas** (*with* Mount, David M.; Netanyahu, Nathan S.; Piatko, Christine D.; Silverman, Ruth; Wu, Angela Y.) The analysis of a simple $k$-means clustering algorithm. (English summary) (*see* **2001i:68009**)
**Klein, Paul** Using the generalized Schur form to solve a multivariate linear rational expectations model. (English summary) **2001d:65014**
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**Lü, Chun Lian** Iterative refinement of parameter estimates and residuals from the fitting of a regression model using QR decomposition. (Chinese. English summary)
**Mastronardi, Nicola** (*with* Lemmerling, Philippe; Van Huffel, Sabine) Fast structured total least squares algorithm for solving the basic deconvolution problem. (English summary) **2001h:65015**
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**Roverato, Alberto** Cholesky decomposition of a hyper inverse Wishart matrix. (English summary) **2001c:65012**
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**Xu, Ji Hua** (*with* Zhang, Ze Yin) Moment generating function and generalized Feller operators. (Chinese. English and Chinese summaries)
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**Anděl, Jiří** (*with* Hrach, Karel) On calculation of stationary density of autoregressive processes. (English summary) **2001g:60080**
**Anido, Carmen** (*with* Valdés, Teófilo; Rivero, Carlos) Modal iterative estimation in linear models with unimodal errors and non-grouped and grouped data collected from different sources. (English summary)
**Antonelli, Fabio** (*with* Kohatsu Higa, Arturo) Filtration stability of backward SDE's. (English summary) **2001b:60076**
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**Bogdan, Krzysztof** (*with* Bogdan, Małgorzata) On existence of maximum likelihood estimators in exponential families. (English summary) **2001c:62024**
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**Buchholz, Peter** Multilevel solutions for structured Markov chains. (English summary) **2001d:60077**
**Bühlmann, Peter** Dynamic adaptive partitioning for nonlinear time series. (English summary) **2001c:62074**
**Calvin, James M.** (*with* Žilinskas, Antanas) On the choice of statistical model for one-dimensional P-algorithms. (English summary) **2001c:90046**
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**Dargahi-Noubary, G. R.** (*with* Shi, Yixun) Computation of periodogram using a jackknife procedure and its applications. (English summary) (*see* **2001d:65007**)
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**Landau, David P.** (*with* Binder, Kurt) ★ A guide to Monte Carlo simulations in statistical physics. (English summary) **2001m:82051**
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**Leite, José Galvão** (*with* Rodrigues, Josemar; Milan, Luis A.) A Bayesian analysis for estimating the number of species in a population using nonhomogeneous Poisson process. (English summary) **2001c:62027**
**Li, Ker-Chau** (*with* Lue, Heng-Hui; Chen, Chun-Houh) Interactive tree-structured regression via principal Hessian directions. (English summary) **2001k:62078**
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**Ma, Jiang Hong** (*with* Zhang, Wen Xiu) The trust region algorithm for nonlinear regression $M$-estimators. (Chinese. English summary)
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**Martin, Richard John** Exact Gaussian maximum likelihood and simulation for regularly-spaced observations with Gaussian correlations. (English summary) **2001f:62056**
**Melamed, Benjamin** (*with* Singh, Santokh) Parallelization algorithms for modeling ARM processes. (English summary) **2001m:60220**
**Milan, Luis A.** *see* **Leite, José Galvão et al., 2001c:62027**
**Mosler, Karl** *see* **Seidel, Wilfried et al.**
**Moulines, Eric** *see* **Delyon, Bernard et al., 2001h:62031**
**Moussa, Nabil** Numerical solutions for a maintenance and replacement model. (English summary)
**Mukhopadhyay, Madhuchhanda** *see* **Deshpande, Jayant V. et al.**
**Naik Nimbalkar, U. V.** *see* **Deshpande, Jayant V. et al.**
**Naumova, N. I.** Commutativity of some averaging operators in problems of matrix optimization. (English summary)
— On the commutation of averaging operators on finite scale. (English summary)
**Neudecker, Heinz** *see* **van de Velden, Michel, 2001i:65050**
**Nielsen, Jens Perch** *see* **Mammen, Enno et al., 2001d:62040**
**Nielsen, Søren Feodor** The stochastic EM algorithm: estimation and asymptotic results. (English summary) **2001f:62016**
**Nolan, John P.** *see* **Fofack, Hippolyte, 2001g:60030**
**Pagès, Gilles** (*with* Xiao, Yi-Jun) Sequences with low discrepancy and pseudo-random numbers: theoretical results and numerical tests. (English summary)
**Parmigiani, Giovanni** *see* **Dominici, Francesca et al., 2001i:62076**
**Pettersson, Roger** *see* **Kohatsu Higa, Arturo, (2001d:00053)**
**Piccioni, Mauro** *see* **Madras, Neal, 2001e:60139**
**Pistone, Giovanni** *see* **Fontana, Roberto et al., 2001k:62094**
**Redner, Richard A.** Convergence rates for uniform $B$-spline density estimators. II. Multiple dimensions. (English summary)
**Rivero, Carlos** *see* **Anido, Carmen et al.**
**Robert, Christian P.** (*with* Casella, George) ★ Monte Carlo statistical methods. (English summary) **2001g:62020**
**Rodrigues, Josemar** *see* **Leite, José Galvão et al., 2001c:62027**
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**Rosen, Ori** (*with* Jiang, Wenxin; Tanner, Martin A.) Mixtures of marginal models. (English summary) **2001e:62064**
**Satten, Glen A.** (*with* Datta, Somnath) The S-U algorithm for missing data problems. (English summary)
**Schimek, Michael G.** Estimation and inference in partially linear models with smoothing splines. (English summary) (*see* **2001i:62001**)
**Seidel, Wilfried** (*with* Mosler, Karl; Alker, Manfred) A cautionary note on likelihood ratio tests in mixture models. (English summary)
**Severini, Thomas A.** *see* **Staniswalis, Joan G., 2001k:62057**
**Sexton, Joe** (*with* Swensen, Anders Rygh) ECM algorithms that converge at the rate of EM. (English summary) **2001e:62021**
**Shi, Yixun** *see* **Dargahi-Noubary, G. R., (2001d:65007)**
**Simpson, Douglas G.** *see* **Xie, Minge et al.**
**Singh, Santokh** *see* **Melamed, Benjamin, 2001m:60220**
**Smyth, Gordon K.** (*with* Hawkins, Douglas M.) Robust frequency estimation using elemental sets. (English summary)
**Staniswalis, Joan G.** (*with* Severini, Thomas A.) Fitting the additive model by recursion on dimension. (English summary) **2001k:62057**
**Stephens, Matthew** Bayesian analysis of mixture models with an unknown number of components—an alternative to reversible jump methods. (English summary) **2001e:62026**
— (*with* Donnelly, Peter) Inference in molecular population genetics. (English summary) **2001h:62047**
**Sun, Dao De** A stepwise regression method for selection of independent variables in a linear regression model and its consistency. (Chinese. English and Chinese summaries)
**Sun, Shi Jie** (*with* Chen, Quan Le; Wang, Jing Xia) The maximum weighted earliness-tardiness problem with different due windows of jobs. (Chinese. English and Chinese summaries)
**Swensen, Anders Rygh** *see* **Sexton, Joe, 2001e:62021**
**Tang, Man-Lai** Exact goodness-of-fit test for binary logistic model. (English summary)
**Tanner, Martin A.** *see* **Rosen, Ori et al., 2001e:62064**
**Tao, Feng** *see* **Geng, Zhi et al., 2001h:62108**
**Toyonaga, Kenji** Computation of values of threshold probabilities of discounted Markov decision processes with guaranteed accuracy. (Japanese. Japanese summary) (*see* **2001f:65006**)
**Tsang, Wai Wan** *see* **Marsaglia, George, 2001k:65015**
**Valdés, Teófilo** *see* **Anido, Carmen et al.**
**van de Velden, Michel** (*with* Neudecker, Heinz) On an eigenvalue property relevant in correspondence analysis and related methods. (English summary) **2001i:65050**
**Wan, Kang** *see* **Geng, Zhi et al., 2001h:62108**
**Wang, Jing Xia** *see* **Sun, Shi Jie et al.**
**van de Wiel, M. A.** (*with* Di Bucchianico, A.) Fast computation of the exact null distribution of Spearman's $\rho$ and Page's $L$ statistic for samples with and without ties. (English summary) **2001k:62063**
**Xiao, Yi-Jun** *see* **Pagès, Gilles**
**Xie, Minge** (*with* Simpson, Douglas G.; Carroll, Raymond J.) Random effects in censored ordinal regression: latent structure and Bayesian approach. (English and French summaries)
**Yang, Ilsoon** *see* **Lange, Kenneth et al., 2001k:62029**
**Yuan, Lin** (*with* Kalbfleisch, John D.) On the Bessel distribution and related problems. (English summary) **2001h:62022**
**Zhang, Wen Xiu** *see* **Ma, Jiang Hong**
**Zhu, Hong-Tu** (*with* Lee, Sik-Yum) Local influence for incomplete-data models. (English summary) **2001m:62084**
**Žilinskas, Antanas** *see* **Calvin, James M., 2001c:90046**
**Zitikis, Ričardas** *see* **Helmers, Roelof, 2001j:62104**

## 65C99 None of the above, but in this section

Items with secondary classifications in 65C99

**Jones, Donald R.** *see* **Schonlau, Matthias et al., 2001m:65081**
**Schonlau, Matthias** (*with* Welch, William J.; Jones, Donald R.) Global versus local search in constrained optimization of computer models. (English summary) **2001m:65081**
**Welch, William J.** *see* **Schonlau, Matthias et al., 2001m:65081**

# 65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx.}

## 65D05 Interpolation

**Apel, Thomas** Interpolation of non-smooth functions on anisotropic finite element meshes. (English summary) **2001h:65016**
**Beatson, R. K.** (*with* Light, W. A.; Billings, Stephen D.) Fast solution of the radial basis function interpolation equations: domain decomposition methods. (English summary) **2001k:65025**
**Berrut, Jean-Paul** A matrix of determining lower complexity barycentric representations of rational interpolants. (English summary) **2001f:65015**
— *see also* **Gautschi, Walter, 2001m:65023**
**Billings, Stephen D.** *see* **Beatson, R. K. et al., 2001k:65025**
**Boche, Holger** Konvergente Lagrange-Interpolationspolynome für die Disk-Algebra. [Convergent Lagrange interpolation polynomials for the disk algebra] **2001m:65022**
**Chen, Shao Chun** *see* **Wu, Duan Gong**
**Dem'yanovich, Yu. K.** On the application of local approximations. (Russian. Russian summary)
**Gautschi, Walter** Remark: "Barycentric formulae for cardinal (SINC-) interpolants" [Numer. Math. **54** (1989), no. 6, 703–718; MR 90d:65025a] by J.-P. Berrut. (English summary) **2001m:65023**
**Hiyoshi, Hisamoto** (*with* Sugihara, Kokichi) Voronoi-based interpolation with higher continuity. (English summary) **2001j:65019**
**Krivosheyev, Sergey** Isogeometric interpolation by rational cubic splines. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
**Levin, Adi** Surface design using locally interpolating subdivision schemes. (English summary) **2001b:65017**
**Light, W. A.** *see* **Beatson, R. K. et al., 2001k:65025**
**Mulansky, Bernd** (*with* Schmidt, Jochen W.) Composition based staircase algorithm and constrained interpolation with boundary conditions. (English summary) **2001c:65013**
**Robinson, Barrie** Polynomial representations of Legendre functions. (*see* **2001d:00032**)
**Schmidt, Jochen W.** *see* **Mulansky, Bernd, 2001c:65013**
**Sugihara, Kokichi** *see* **Hiyoshi, Hisamoto, 2001j:65019**
**Vlachkova, Krassimira** A Newton-type algorithm for solving an extremal constrained interpolation problem. (English summary) **2001c:65014**
**Wu, Duan Gong** (*with* Chen, Shao Chun) Interpolations on a simplex with constraints and their applications to finite elements. (Chinese. English and Chinese summaries)
**Ženčák, Pavel** Some algorithm for testing convexity of histogram. (English summary) **2001a:65013**

Items with secondary classifications in 65D05

**Abdel-Aziz, Mohammedi R.** Parameterized eigensolution technique for solving constrained least squares problems. (English summary) **2001j:65070**
**Bangert, Claudia** (*with* Prautzsch, Hartmut) Quadric splines. (English summary) **2001b:65026**
**Barthelmann, Volker** (*with* Novak, Erich; Ritter, Klaus) High dimensional polynomial interpolation on sparse grids. (English summary) **2001d:41033**
**Beckermann, Bernhard** (*with* Saff, Edward B.) The sensitivity of least squares polynomial approximation. (English summary) **2001d:41001**

**de Boor, Carl** Computational aspects of multivariate polynomial interpolation: indexing the coefficients. (English summary) **2001c:41048**
**de Bruin, Marcel G.** (*with* Dikshit, H. P.; Sharma, Ambikeshwar) Birkhoff interpolation on unity and on Möbius transform of the roots of unity. (English summary) **2001e:41002**
**Carstensen, Carsten** Quasi-interpolation and a posteriori error analysis in finite element methods. (English summary) **2001a:65135**
**Chen, Zhi Bing** Multivariate Salzer's theorem. (Chinese. English and Chinese summaries) **2001m:41009**
**Chu, Chuan I** *see* **Xu, Guo-liang et al., 2001m:41012**
**Costin, Iulia** *see* **Toader, Silvia, (2001k:00021a)**
**Dagnino, Catterina** (*with* Demichelis, V.; Lamberti, Paola; Pittaluga, Giovanna; Sacripante, Laura) On univariate and bivariate polynomial spline approximation. (English and Italian summaries) (*see* **2001i:65003**)
**Davydov, Oleg** (*with* Sommer, Manfred) Interpolation and almost interpolation by weak Chebyshev spaces. (English summary) **2001a:41039**
**Demichelis, V.** *see* **Dagnino, Catterina et al., (2001i:65003)**
**Dicheva, N. K.** On the best recovery of a linear functional in a certain class of bivariate functions. (English summary) **2001m:41033**
**Dikshit, H. P.** *see* **de Bruin, Marcel G. et al., 2001e:41002**
**Egger, A.** (*with* Lay, T.; Taylor, G. D.) Non-convexity of the set of Pólya limits. (English summary) **2001c:41041**
**Fang, Yi[2]** *see* **Tan, Jie Qing, 2001e:41021**
**Håvie, Tore** Romberg integration and classical analysis. (English summary)
**Ignatenko, M. V.** *see* **Yanovich, L. A., 2001m:41029**
**Kalantari, Bahman** Generalization of Taylor's theorem and Newton's method via a new family of determinantal interpolation formulas and its applications. (English summary) **2001m:41035**
**Kobza, Jiří** Optimal polygonal interpolation. (English summary) **2001a:41011**
**Kravanja, Peter** (*with* Van Barel, Marc) Coupled Vandermonde matrices and the superfast computation of Toeplitz determinants. (English summary) **2001i:65056**
**Kuchminskaya, Kh. I.** (*with* Vozna, Svitlana) On Newton-Thiele-like interpolating formula. (English summary)
**Kushpel', A. K.** (*with* Levesley, Jeremy) Quasi-interpolation on the 2-sphere using radial polynomials. (English summary) **2001h:41033**
**Lamberti, Paola** *see* **Dagnino, Catterina et al., (2001i:65003)**
**Lay, T.** *see* **Egger, A. et al., 2001c:41041**
**Le Méhauté, A.** On some aspects of multivariate polynomial interpolation. (English summary) **2001e:41004**
**Levesley, Jeremy** *see* **Ragozin, D. L., 2001f:41026** *and* **Kushpel', A. K., 2001h:41033**
**Lorente-Pardo, J.** (*with* Sablonnière, Paul; Serrano-Pérez, M. C.) On the convexity of $C^1$ surfaces associated with some quadrilateral finite elements. (English summary) **2001e:65028**
**Lorentz, Rudolph** Multivariate Hermite interpolation by algebraic polynomials: a survey. (English summary) **2001k:41034**
**Malva, Leonor** (*with* Šalkauskas, Kęstutis) Enforced drainage terrain models using minimum norm networks and smoothing splines. (English summary) **2001m:65024**
**Manni, Carla** A general parametric framework for functional tension schemes. (English summary) **2001h:41031**
**Manyuk, E. M.** (*with* Yanovich, L. A.) On formulas for the linear and quadratic interpolation of functionals in the space of differentiable functions. (Russian. English and Russian summaries) **2001f:41006**
**Möller, H. Michael** (*with* Sauer, Thomas) *H*-bases for polynomial interpolation and system solving. (English summary) **2001g:41005**
**Novak, Erich** *see* **Barthelmann, Volker et al., 2001d:41033**
**Pittaluga, Giovanna** *see* **Dagnino, Catterina et al., (2001i:65003)**
**Prautzsch, Hartmut** *see* **Bangert, Claudia, 2001b:65026**
**Ragozin, D. L.** (*with* Levesley, Jeremy) The density of translates of zonal kernels on compact homogeneous spaces. (English summary) **2001f:41026**
**Reif, Ulrich** Best bounds on the approximation of polynomials and splines by their control structure. (English summary) **2001b:41042**
**Riemenschneider, Sherman D.** (*with* Sivakumar, N.) Cardinal interpolation by Gaussian functions: a survey. (English summary) **2001j:41025**
**Ritter, Klaus** *see* **Barthelmann, Volker et al., 2001d:41033**
**Sablonnière, Paul** Representation of quasi-interpolants as differential operators and applications. (English summary) **2001a:41005**
— *see also* **Lorente-Pardo, J. et al., 2001e:65028**
**Sacripante, Laura** *see* **Dagnino, Catterina et al., (2001i:65003)**
**Saff, Edward B.** *see* **Beckermann, Bernhard, 2001d:41001**
**Šalkauskas, Kęstutis** *see* **Malva, Leonor, 2001m:65024**
**Sauer, Thomas** *see* **Möller, H. Michael, 2001g:41005**
**Serrano-Pérez, M. C.** *see* **Lorente-Pardo, J. et al., 2001e:65028**
**Sharma, Ambikeshwar** *see* **de Bruin, Marcel G. et al., 2001e:41002**
**Sivakumar, N.** *see* **Riemenschneider, Sherman D., 2001j:41025**
**Sloan, Ian H.** (*with* Womersley, Robert S.) The search for good polynomial interpolation points on the sphere. (English summary) **2001a:41027**
**Sommer, Manfred** *see* **Davydov, Oleg, 2001a:41039**
**Sprengel, Frauke** Interpolation of functions from Besov-type spaces on Gauß-Chebyshev grids. (English summary) **2001g:41031**
**Strichartz, Robert S.** The shape of the error in wavelet approximation and piecewise linear interpolation. (English summary) **2001d:42028**
**Tachev, Gancho T.** Piecewise linear interpolation with nonequidistant nodes. (English summary) **2001j:41005**
**Tan, Jie Qing** (*with* Fang, Yi[2]) Newton-Thiele's rational interpolants. (English summary) **2001e:41021**
**Taylor, G. D.** *see* **Egger, A. et al., 2001c:41041**
**Toader, Silvia** (*with* Costin, Iulia) A generalization of Gontcharoff's interpolation schema. (English summary) (*see* **2001k:00021a**)
**Van Barel, Marc** *see* **Kravanja, Peter, 2001i:65056**
**Verfürth, Rüdiger** Error estimates for some quasi-interpolation operators. (English and French summaries) **2001a:65149**
**Vozna, Svitlana** *see* **Kuchminskaya, Kh. I.**
**Womersley, Robert S.** *see* **Sloan, Ian H., 2001a:41027**
**Xu, Guo-liang** (*with* Chu, Chuan I; Xue, Wei Min[1]) Tetrahedral $C^m$ interpolation by rational functions. (English summary) **2001m:41012**
**Xue, Wei Min[1]** *see* **Xu, Guo-liang et al., 2001m:41012**
**Yanovich, L. A.** (*with* Ignatenko, M. V.) Interpolation formulas for differentiable operators defined on the Cartesian product of function spaces. (Russian. English and Russian summaries) **2001m:41029**
— *see also* **Manyuk, E. M., 2001f:41006**

## 65D07 Splines

**Altas, Irfan** *see* **Hegland, Markus et al., (2001d:00032)**
**Bakin, Sergey** (*with* Hegland, Markus; Osborne, Michael R.) Can MARS be improved with *B*-splines? (*see* **2001d:00032**)
**Barzanti, Luca** (*with* Corradi, Corrado) A note on direct term structure estimation using monotonic splines. (English and Italian summaries)
**Basarab, M. O.** Iterative processes in the problem of local spline interpolation. (Russian. English summary)
**Baumgartner, Alfonzo** *see* **Sabo, Kristian**
**Bogdanov, V. V.** An algorithm for constructing a generalized spline that preserves the direction of convexity of data. (Russian. Russian summary)
**Brigger, Patrick** (*with* Hoeg, Jeff; Unser, Michael) *B*-spline snakes: a flexible tool for parametric contour detection. (English summary) **2001j:65020**
**Burova, I. G.** (*with* Patrusheva, E. V.; Chermnykh, T. V.) On the construction of approximations on a finite grid. (Russian. Russian summary)
**Chen, Zhi Bing** (*with* Feng, Yu Yu; Kozak, Jernej) The blossom approach to the dimension of the bivariate spline space. (English summary) **2001g:65015**
**Chermnykh, T. V.** *see* **Burova, I. G. et al.**
**Corradi, Corrado** *see* **Barzanti, Luca**
**Costantini, Paolo** (*with* Kvasov, Boris I.; Manni, Carla) On discrete hyperbolic tension splines. (English summary) **2001c:65015**
**Davydov, Oleg** (*with* Nürnberger, Günther) Interpolation by $C^1$ splines of degree $q \geq 4$ on triangulations. (English summary) **2001k:65026**
**Deng, Jian Song** (*with* Feng, Yu Yu; Kozak, Jernej) A note on the dimension of the bivariate spline space over the Morgan-Scott triangulation. (English summary) **2001b:65018**
**Duan, Ji Wei** (*with* Lee, Peter Kai-kwong) Construction of boundary B-spline functions. (English summary)
**Feng, Yu Yu** *see* **Deng, Jian Song et al., 2001b:65018** *and* **Chen, Zhi Bing et al., 2001g:65015**
**Franssen, Michael** (*with* Veltkamp, Remco C.; Wesselink, Wieger) Efficient evaluation of triangular *B*-spline surfaces. (English summary) **2001g:65016**
**Grebennikov, A. I.** Spline algorithms for data processing and solving some inverse problems. (*see* **2001d:65007**)
**Hebert, D. J.** A box spline subdivision pyramid algorithm. (English summary) **2001a:65014**
**Hegland, Markus** (*with* Roberts, Stephen G.; Altas, Irfan) Finite element thin plate splines for surface fitting. (*see* **2001d:00032**)
— *see also* **Bakin, Sergey et al., (2001d:00032)**
**Hoeg, Jeff** *see* **Brigger, Patrick et al., 2001j:65020**
**Hsieh, W. S.** *see* **Truong, T. K. et al.**
**Hu, Shi Min** *see* **Yong, Jun Hai et al.**
**Hu, Yingkang** (*with* Kopotun, Kirill A.; Yu, Xiang Ming) Modified adaptive algorithms. (English summary) **2001i:65017**
**Jenkins, David R.** Thin plate spline interpolation on an annulus. (English summary) (*see* **2001i:65004**)
**Johnson, Michael J.** Overcoming the boundary effects in surface spline interpolation. (English summary) **2001h:65017**
**Joseph, J.** *see* **Shrivastava, Manjulata, 2001e:65020**
**Kalitkin, N. N.** (*with* Kuz'mina, L. V.; Maevskiĭ, E. V.; Tishkin, V. F.) Rotational invariance of parametric spline approximation. (Russian. English and Russian summaries) **2001b:65019**
— (*with* Shlyakhov, N. M.) Natural interpolation by *B*-splines. (Russian) **2001h:65018**
**Kopotun, Kirill A.** *see* **Hu, Yingkang et al., 2001i:65017**
**Kouibia, A.** (*with* Pasadas, M.) Approximation by discrete variational splines. (English summary) **2001b:65020**
**Kozak, Jernej** *see* **Deng, Jian Song et al., 2001b:65018** *and* **Chen, Zhi Bing et al., 2001g:65015**
**Kuz'mina, L. V.** *see* **Kalitkin, N. N. et al., 2001b:65019**
**Kvasov, Boris I.** *see* **Costantini, Paolo et al., 2001c:65015**
**Lai, Ming-Jun** (*with* Schumaker, Larry L.) Macro-elements and stable local bases for splines on Clough-Tocher triangulations. (English summary) **2001k:65027**
**Lee, Peter Kai-kwong** *see* **Duan, Ji Wei**
**Liu, Yan Jun** *see* **Yu, Li Ping**
**Lyche, Tom** (*with* Schumaker, Larry L.) A multiresolution tensor spline method for fitting functions on the sphere. (English summary) **2001g:65017**
**Maevskiĭ, E. V.** *see* **Kalitkin, N. N. et al., 2001b:65019**
**Malva, Leonor** (*with* Šalkauskas, Kęstutis) Enforced drainage terrain models using minimum norm networks and smoothing splines. (English summary) **2001m:65024**
**Manni, Carla** *see* **Costantini, Paolo et al., 2001c:65015**
**Moon, Byung Soo** An explicit solution for the cubic spline interpolation for functions of a single variable. (English summary)
**Nürnberger, Günther** *see* **Davydov, Oleg, 2001k:65026**
**Osborne, Michael R.** *see* **Bakin, Sergey et al., (2001d:00032)**
**Pasadas, M.** *see* **Kouibia, A., 2001b:65020**
**Patrusheva, E. V.** *see* **Burova, I. G. et al.**
**Pinchukov, V. I.** A monotone nonlocal cubic spline. (Russian. Russian summary) **2001k:65028**
**Prvan, T.** Least squares splines with variable knots using a smoothing spline basis. (English summary) (*see* **2001i:65004**)

**Reed, I. S.** *see* **Truong, T. K. et al.**
**Roberts, Stephen G.** *see* **Hegland, Markus et al., (2001d:00032)**
**Sabo, Kristian** (*with* Baumgartner, Alfonzo) One method for searching the best discrete $TL_p$ approximation. (English summary)
**Šalkauskas, Kęstutis** *see* **Malva, Leonor, 2001m:65024**
**Schumaker, Larry L.** *see* **Lyche, Tom, 2001g:65017** *and* **Lai, Ming-Jun, 2001k:65027**
**Shlyakhov, N. M.** *see* **Kalitkin, N. N., 2001h:65018**
**Shrivastava, Manjulata** (*with* Joseph, J.) $C^2$-rational cubic spline involving tension parameters. (English summary) **2001e:65020**
**Skorospelov, V. A.** (*with* Turuk, P. A.) On the approximation of curves defined implicitly by cubic parametric splines. (Russian. Russian summary)
**Sun, Jia Guang** *see* **Yong, Jun Hai et al.**
**Tishkin, V. F.** *see* **Kalitkin, N. N. et al., 2001b:65019**
**Tomilin, A. V.** Interpolation by closed parametric quadratic spline curves of smoothness $C^2$ on the plane. (Russian. English and Russian summaries)
**Truong, T. K.** (*with* Wang, L. J.; Reed, I. S.; Hsieh, W. S.) Image data compression using cubic convolution spline interpolation. (English summary)
**Turuk, P. A.** *see* **Skorospelov, V. A.**
**Unser, Michael** *see* **Brigger, Patrick et al., 2001j:65020**
**Veltkamp, Remco C.** *see* **Franssen, Michael et al., 2001g:65016**
**Vendel, Teréz Pethőné** Generation of surfaces from spline curves defined via trigonometric blended functions. (Hungarian. German and Hungarian summaries)
**Volkov, Yu. S.** On the construction of interpolation polynomial splines. (Russian. Russian summary)
**Wang, L. J.** *see* **Truong, T. K. et al.**
**Wang, Ren Hong** (*with* Zhao, Guo Hui) Integral method for constructing locally supported spline functions on nonuniform partitions. (Chinese. English summary) **2001m:65025**
**Wesselink, Wieger** *see* **Franssen, Michael et al., 2001g:65016**
**Yong, Jun Hai** (*with* Hu, Shi Min; Sun, Jia Guang) Degree reduction of uniform $B$-spline curves. (Chinese. English and Chinese summaries)
**Yu, Li Ping** (*with* Liu, Yan Jun) Global and local data reduction strategy for cubic splines. (Chinese. English and Chinese summaries)
**Yu, Xiang Ming** *see* **Hu, Yingkang et al., 2001i:65017**
**Zav'yalov, Yu. S.** Interpolation by generalized cubic splines of class $C^2$ with changes in the monotonicity or convexity direction. (Russian. Russian summary)
**Zhan, Yin-wei** On triangular $C^1$ schemes: a novel construction. (English summary) **2001c:65016**
**Zhao, Guo Hui** *see* **Wang, Ren Hong, 2001m:65025**

## Items with secondary classifications in 65D07

**Alfeld, Peter** Bivariate spline spaces and minimal determining sets. (English summary) **2001e:41013**
**Atteia, M.** Hilbertian fractal structures and approximation. (English summary) (*see* **2001c:90006**)
**Bangert, Claudia** (*with* Prautzsch, Hartmut) Quadric splines. (English summary) **2001b:65026**
**Bayomi, Salah Aldin** *see* **Dem'yanovich, Yu. K., 2001h:41012**
**Blu, Thierry** *see* **Unser, Michael, 2001c:41013**
**Bonneau, Georges-Pierre** *see* **Hahmann, Stefanie, 2001f:65017**
**Brandts, Jan H.** *see* **Grigorieff, R. D. et al., 2001m:41004**
**Burova, I. G.** (*with* Dem'yanovich, Yu. K.) On quadrature formulas conforming with minimal splines of interpolation. (English summary)
— Interpolation trigonometric splines and quadrature formulas. (Russian. Russian summary) **2001m:41003**
**Champion, R.** (*with* Lenard, C. T.; Mills, T. M.) A variational approach to splines. (English summary) **2001e:41014**
**Chen, Zhi Bing** On the dimensions of spline spaces for triangulation. (Chinese. English and Chinese summaries)
**Cheng, Fu-hua** *see* **Duan, Qi et al., 2001m:41016**
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## 65D17 Computer aided design (modeling of curves and surfaces) [see also 68U07]

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**Choi, Sung Hee** *see* **Amenta, Nina et al., (2001i:68009)**
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**Shimada, Kenji** *see* **Inoue, Keisuke**
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**Chen, Zhi Bing** (*with* Feng, Yu Yu; Kozak, Jernej) The blossom approach to the dimension of the bivariate spline space. (English summary) **2001g:65015**
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**Hoschek, Josef** (*with* Müller, Rainer) Turbine blade design by lofted $B$-spline surfaces. (*see* **2001d:65003**)
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**Mainar, E.** (*with* Peña, J. M.) Knot insertion and totally positive systems. (English summary) **2001b:41006**
**Manni, Carla** A general parametric framework for functional tension schemes. (English summary) **2001h:41031**
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**Schröder, Peter** Subdivision, multiresolution and the construction of scalable algorithms in computer graphics. (English summary) (*see* **2001m:65005**)
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**Vendel, Teréz Pethőné** Generation of surfaces from spline curves defined via trigonometric blended functions. (Hungarian. German and Hungarian summaries)
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## 65D18 Computer graphics and computational geometry [see also 51N05, 68U05]

**Abello, James** (*with* Krishnan, Shankar) Navigating graph surfaces. (English summary) (*see* **2001c:90005**)
**Agarwal, Pankaj K.** (*with* Aronov, Boris; Har-Peled, Sariel; Sharir, Micha) Approximation and exact algorithms for minimum-width annuli and shells. (English summary) (*see* **2001g:68004**)
**Aichholzer, Oswin** (*with* Aurenhammer, Franz; Icking, Christian; Klein, Rolf; Langetepe, Elmar; Rote, Günter) Generalized self-approaching curves. (English summary) **2001k:65033**
**Albeanu, Grigore** On the geometric modeling of curves by trigonometric polynomials. (English summary)
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**Baek, Nakhoon** (*with* Shin, Sung Yong; Chwa, Kyung-Yong) Three-dimensional topological sweep for computing rotational swept volumes of polyhedral objects. (English summary) **2001e:65029**
**Bai, Yi** *see* **Bao, Xu Dong et al.**
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**Bao, Xu Dong** (*with* Bai, Yi; Fu, Yao; Zhou, Fei Ya; Luo, Li Min) A fast algorithm for computing 3D orthogonal moments. (Chinese. English and Chinese summaries)
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**Baskurt, Atilla** *see* **Guérin, Eric et al.**
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**Berzins, Martin** Solution-based mesh quality indicators for triangular and tetrahedral meshes. (English summary) **2001d:65024**
**Bez, H. E.** On the relationship between parametrisation and invariance for curve functions. (English summary) **2001h:65024**
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**Böröczky, Károly, Jr.** The error of polytopal approximation with respect to the symmetric difference metric and the $L_p$ metric. (English summary) **2001c:65023**
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**Bozzini, M.** (*with* Rossini, Milvia) Approximating surfaces with discontinuities. (English summary) **2001d:65025**
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**Brönnimann, Hervé** (*with* Burnikel, Christoph; Pion, Sylvain) Interval arithmetic yields efficient dynamic filters for computational geometry. (English summary) **2001k:65034**
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**Cao, Frédéric** (*with* Moisan, Lionel) A stable numerical algorithm for generalized curve shortening flow. (English summary) **2001h:65025**
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**Chin, Paulina** (*with* Corless, Robert M.; Corliss, George F.) Optimization strategies for the approximate GCD problem. (English summary) (*see* **2001m:68004**)
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## 65D20 Computation of special functions, construction of tables [see also 33F05]

**Aoyama, Takeshi** *see* **Makino, Isao**, (2001d:00048)
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**Müller, Jürgen[3]** Series expansions for computing Bessel functions of variable order on bounded intervals. (English summary) **2001e:65035**
**Noda, Matu-Tarow** *see* **Kai, Hiroshi et al.**, (2001d:00048)
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**Pasquini, L.** Accurate computation of the zeros of the generalized Bessel polynomials. (English summary) **2001i:65030**
**Pevnyĭ, A. B.** *see* **Malozëmov, V. N.**
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**Al-Saqabi, Bader N.** *see* **Kalla, Shyam L. et al.**
**Ball, James S.** Automatic computation of zeros of Bessel functions and other special functions. (English summary) **2001i:33027**
**Barrio, Roberto** Parallel algorithms to evaluate orthogonal polynomial series. (English summary) **2001f:33030**
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**Dragomir, Sever Silvestru** On the Ostrowski's integral inequality for mappings with bounded variation and applications. (English summary) **2001m:26040**
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**Roach, Kelly** Meijer $G$ function representations. (English summary) (*see* **2001i:68010**)
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## 65D25 Numerical differentiation

**Abate, Jason** (*with* Bischof, Christian; Roh, Lucas; Carle, Alan) Algorithms and design for a second-order automatic differentiation module. (English summary) (*see* **2001i:68010**)
**Abu-Saris, Raghib M.** A new approach to numerical differentiation. (*see* **2001b:00025**)
**Bischof, Christian** *see* **Abate, Jason et al., (2001i:68010)**
**Bronstein, Manuel** (*with* Mulders, Thom; Weil, Jacques-Arthur) On symmetric powers of differential operators. (English summary) (*see* **2001i:68010**)
**Bulychev, Yu. G.** (*with* Burlaĭ, I. V.) Optimal computation of derivatives of various orders in the class of functions with a compactly supported spectrum. (Russian. Russian summary) **2001h:65029**
**Burg, Clarence O. E.** Use of discrete sensitivity analysis to transform explicit simulation codes into design optimization codes. (English summary) **2001h:65030**
**Burlaĭ, I. V.** *see* **Bulychev, Yu. G., 2001h:65029**
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**Gelashvili, K.** On one randomized method of directional derivative computation. (English summary)
**Gorban′, A. N.** (*with* Senashova, M. Yu.) Fast differentiation, duality, and back-propagating errors. (Russian. English summary) **2001d:65030**
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**Wallace, Roger J.** Optimal sequential search of order $2(2^m - 1)$. (English summary) **2001j:65034**
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## 65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

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## 65Fxx Numerical linear algebra

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**Meister, Andreas[2]** ★ Numerik linearer Gleichungssysteme. (German. German summary) [Numerics of systems of linear equations] **2001g:65001**
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## 65F05 Direct methods for linear systems and matrix inversion

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## 65F22 Ill-posedness, regularization

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## 65F25 Orthogonalization

**Dax, Achiya** A modified Gram-Schmidt algorithm with iterative orthogonalization and column pivoting. (English summary) **2001b:65048**
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**Lotti, Grazia** *see* **Favati, Paola et al., 2001e:65048**
**Ma, Yanyuan** *see* **Edelman, Alan, 2001e:65071**
**Magolu Monga-Made, Mardochée** (*with* Notay, Yvan) Dynamically relaxed block incomplete factorizations for solving two- and three-dimensional problems. (English summary) **2001e:65051**
**Menchi, Ornella** *see* **Favati, Paola et al., 2001e:65048**
**Notay, Yvan** *see* **Magolu Monga-Made, Mardochée, 2001e:65051**
**Pan, Victor Y.** *see* **Emiris, Ioannis Z., 2001i:68173**
**Pesaran, M. Hashem** *see* **Binder, Michael, 2001e:91133**
**Poirier, Bill** Efficient preconditioning scheme for block partitioned matrices with structured sparsity. (English summary) **2001g:65050**
**Romani, Francesco** *see* **Favati, Paola et al., 2001e:65048**
**Simon, Horst D.** (*with* Zha, Hongyuan) Low-rank matrix approximation using the Lanczos bidiagonalization process with applications. (English summary) **2001e:65065**
**Tůma, Miroslav** *see* **Benzi, Michele et al., 2001i:65039** *and* **2001i:65040**
**Tyrtyshnikov, E. E.** Incomplete cross approximation in the mosaic-skeleton method. (English summary) **2001h:65034**
**Verwer, J. G.** *see* **Lastdrager, Boris et al., (2001d:65006)**
**Ye, Jigen** *see* **Zhou, Jifu et al.**
**Yu, Chong-hua** (*with* Axelsson, Owe) A process for solving a few extreme eigenpairs of large sparse positive definite generalized eigenvalue problem. (English summary) **2001d:65050**
**Yun, Jae Heon** (*with* Kim, Sang Wook[1]; Kim, Eun Heui) Block incomplete factorization preconditioners for a symmetric $H$-matrix. (English summary) **2001i:65046**
**Zha, Hongyuan** (*with* Zhang, Zhenyue) Matrices with low-rank-plus-shift structure: partial SVD and latent semantic indexing. (English summary) **2001b:65046**
— *see also* **Simon, Horst D., 2001e:65065** *and* **Golub, Gene H. et al., (2001b:65005)**
**Zhang, Zhenyue** *see* **Zha, Hongyuan, 2001b:65046** *and* **Golub, Gene H. et al., (2001b:65005)**
**Zhou, Jifu** (*with* Li, Jiachun; Ye, Jigen) Efficient computation of the compositional model for gas condensate reservoirs. (English summary)

## 65F99 None of the above, but in this section

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**Avrachenkov, Konstantin E.** (*with* Longman, Richard W.) Iterative learning control for over-determined, under-determined, and ill conditioned systems. (English summary) (*see* **2001g:93008**)
**Longman, Richard W.** *see* **Avrachenkov, Konstantin E., (2001g:93008)**

# 65Gxx Error analysis and interval analysis

Items with secondary classifications in 65Gxx

**(Rohn, Jiří)** *see* **Special Issue: Linear algebra in self-validating methods, 2001i:65005**
**(Rump, Siegfried M.)** *see* **Special Issue: Linear algebra in self-validating methods, 2001i:65005**
**(Yamamoto, Tetsuro)** *see* **Special Issue: Linear algebra in self-validating methods, 2001i:65005**

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## 65G20 Algorithms with automatic result verification

**Albrecht, Rudolf F.** Topological concepts for hierarchies of variables, types and controls. (*see* **2001m:65007**)
**Dimitrova, Neli S.** (*with* Markov, Svetoslav M.) Verified computation of fast decreasing polynomials. (English summary) **2001g:65058**
**Frommer, Andreas** (*with* Weinberg, Andre) Verified error bounds for linear systems through the Lanczos process. (English summary) **2001b:65054**
**Heindl, Gerhard** A representation of the interval hull of a tolerance polyhedron describing inclusions of function values and slopes. (English summary) **2001i:65057**
**Kao, Ming-Yang** (*with* Wang, Jie[1]) Linear-time approximation algorithms for computing numerical summation with provably small errors. (English summary) **2001j:65078**
**Kearfott, R. Baker** (*with* Walster, G. W.) On stopping criteria in verified nonlinear systems or optimization algorithms. (English summary) **2001i:65058**
**Koeber, Martin** Verifying the existence of a zero for all elements of a function set. **2001h:65056**
**Markov, Svetoslav M.** *see* **Dimitrova, Neli S., 2001g:65058**
**Minamoto, Teruya** Numerical verification method for solutions of nonlinear hyperbolic equations. (*see* **2001m:65007**)
**Nakao, Mitsuhiro T.** Numerical verification methods for solutions of ordinary and partial differential equations. (English summary) (*see* **2001i:00039**)
— *see also* **Watanabe, Yoshitaka et al., 2001k:65086**
**Rump, Siegfried M.** Verified solution of large linear and nonlinear systems. (English summary) **2001j:65079**
— Fast verification algorithms in Matlab. (*see* **2001m:65007**)
**Sakurai, Tetsuya** (*with* Sugiura, Hiroshi) A method for finding factors of analytic functions with guaranteed accuracy. (Japanese) (*see* **2001f:65006**)
**Sugiura, Hiroshi** *see* **Sakurai, Tetsuya, (2001f:65006)**
**Walster, G. W.** *see* **Kearfott, R. Baker, 2001i:65058**
**Wang, Jie[1]** *see* **Kao, Ming-Yang, 2001j:65078**
**Watanabe, Yoshitaka** (*with* Yamamoto, Nobito; Nakao, Mitsuhiro T.) A numerical verification method of solutions for the Navier-Stokes equations. (English summary) **2001k:65086**
**Weinberg, Andre** *see* **Frommer, Andreas, 2001b:65054**
**Wolfe, Michael A.** On discrete minimax problems in R using interval arithmetic. (English summary) **2001h:65057**
**Yamamoto, Nobito** *see* **Watanabe, Yoshitaka et al., 2001k:65086**

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**Alefeld, Götz** (*with* Chen, Xiao Jun[1]; Potra, Florian A.) Numerical validation of solutions of nonlinear complementarity problems. (English summary) (*see* **2001f:65006**)
— (*with* Kreinovich, Vladik; Mayer, Günter) Modifications of the Oettli-Prager theorem with application to the eigenvalue problem. (*see* **2001m:65007**)
— *see also* **Symbolic algebraic methods and verification methods, 2001m:65007**
**Chen, Xiao Jun[1]** (*with* Shogenji, Yukihiro; Yamasaki, Maretsugu) Verification for existence of solutions of linear complementarity problems. (English summary) **2001j:90102**
— *see also* **Alefeld, Götz et al., (2001f:65006)**
**Drmač, Zlatko** (*with* Jessup, Elizabeth R.) On accurate quotient singular value computation in floating-point arithmetic. (English summary) **2001j:65062**
**Edalat, Abbas** (*with* Krznarić, Marko) Numerical integration with exact real arithmetic. (English summary) **2001b:65032**
**Garloff, Jürgen** (*with* Smith, Andrew P.) Solution of systems of polynomial equations by using Bernstein expansion. (*see* **2001m:65007**)
**Heckmann, Reinhold** Translation of Taylor series into LFT expansions. (*see* **2001m:65007**)
**Jessup, Elizabeth R.** *see* **Drmač, Zlatko, 2001j:65062**
**Kreinovich, Vladik** *see* **Alefeld, Götz et al., (2001m:65007)**
**Krznarić, Marko** *see* **Edalat, Abbas, 2001b:65032**
**Mayer, Günter** *see* **Alefeld, Götz et al., (2001m:65007)**
**Minamoto, Teruya** Numerical verification of solutions to semilinear evolution equations. (Japanese) (*see* **2001f:65006**)
**Nagatou, Kaori** (*with* Nakao, Mitsuhiro T.; Wakayama, Masato) Solutions with guaranteed accuracy for coupling-type eigenvalue problems related to noncommutative harmonic oscillators. (Japanese) (*see* **2001f:65006**)
**Nakao, Mitsuhiro T.** *see* **Nagatou, Kaori et al., (2001f:65006)**
**Potra, Florian A.** *see* **Alefeld, Götz et al., (2001f:65006)**
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**(Rump, Siegfried M.)** *see* **Symbolic algebraic methods and verification methods, 2001m:65007**
**Shogenji, Yukihiro** *see* **Chen, Xiao Jun[1] et al., 2001j:90102**
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**Świder, Zbigniew** Floating-point roundoff errors of second-order state-space digital filters. (English summary)
**Wakayama, Masato** *see* **Nagatou, Kaori et al., (2001f:65006)**
**Yamamoto, Nobito** A simple method for error bounds of eigenvalues of symmetric matrices. (English summary) **2001m:65056**
**(Yamamoto, Tetsuro)** *see* **Symbolic algebraic methods and verification methods, 2001m:65007**
**Yamasaki, Maretsugu** *see* **Chen, Xiao Jun[1] et al., 2001j:90102**
**Żelawski, Marcin** Rigorous numerical approach to isolation in dynamical systems on the example of the Kuramoto-Sivashinsky equation. (English summary) **2001d:34070**

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## 65G30 Interval and finite arithmetic

**Alefeld, Götz** Interval arithmetic tools for range approximation and inclusion of zeros. **2001h:65058**
**Claudio, Dalcidio M.** *see* **Dimuro, Graçaliz P. et al., 2001g:65059**

**Collavizza, Hélène** (*with* Delobel, François; Rueher, Michel) Comparing partial consistencies. (English summary) **2001h:65059**
**Costa, Antônio Carlos Da R.** *see* **Dimuro, Graçaliz P. et al., 2001g:65059**
**Delobel, François** *see* **Collavizza, Hélène et al., 2001h:65059**
**Dian, Jianwei** *see* **Kearfott, R. Baker et al., 2001e:65078**
**Dimuro, Graçaliz P.** (*with* Costa, Antônio Carlos Da R.; Claudio, Dalcidio M.) A coherence space of rational intervals for a construction of **IR**. (English summary) **2001g:65059**
**Ermakov, O. B.** Interval-analytical estimations of the fixed point of a Volterra integral operator with interval parameters. (*see* **2001d:65007**)
**Hormigo, Javier** (*with* Villalba, Julio; Zapata, Emilio L.) A hardware approach to interval arithmetic for sine and cosine functions. (English summary) (*see* **2001b:65007a**)
**Karlyuk, A. Yu.** A numerical method for determining an algebraic solution of an interval system of linear algebraic equations that is based on triangular decomposition. (Russian. English summary) **2001i:65059**
**Kearfott, R. Baker** (*with* Dian, Jianwei; Neumaier, Arnold) Existence verification for singular zeros of complex nonlinear systems. (English summary) **2001e:65078**
**Kreinovich, Vladik** (*with* Wolff von Gudenberg, Jürgen) An optimality criterion for arithmetic of complex sets. (English summary) **2001c:65059**
— Roundoff-free number fields for interval computations. (English summary) **2001m:65065**
— *see also* **Yager, Ronald R., 2001e:65079**
**Lakeev, A. V.** Existence and uniqueness of algebraic solutions of interval linear systems in the complete Kaucher arithmetic. (Russian. English summary) **2001g:65060**
**Lang, Bruno** A comparison of subdivision strategies for verified multi-dimensional Gaussian quadrature. (English summary) (*see* **2001b:65007a**)
**Lefèvre, Vincent** An algorithm that computes a lower bound on the distance between a segment and $\mathbf{Z}^2$. (English summary) (*see* **2001b:65007a**)
**Markov, Svetoslav M.** The mystery of intervals.
**Martins, M. Madalena** Some improvements on the convergence of the interval MAOR method. (English summary) **2001c:65060**
**Mohd, Ismail Bin** Identification of region of attraction for global optimization problem using interval symmetric operator. (English summary) **2001c:65061**
**Musch, Klaus** (*with* Schumacher, Günter) Interval analysis for embedded systems. (English summary) (*see* **2001b:65007a**)
**Neumaier, Arnold** On Shary's algebraic approach for linear interval equations. (English summary) **2001d:65067**
— *see also* **Kearfott, R. Baker et al., 2001e:65078**
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**Rueher, Michel** *see* **Collavizza, Hélène et al., 2001h:65059**
**Sakurai, Tetsuya** (*with* Sugiura, Hiroshi) On factorization of analytic functions and its verification. (English summary) **2001k:65087**
**Schumacher, Günter** *see* **Musch, Klaus, (2001b:65007a)**
**Sengupta, Atanu** (*with* Pal, Tapan Kumar) On comparing interval numbers. (English summary)
**Strzebonski, Adam** A real polynomial decision algorithm using arbitrary-precision floating point arithmetic. (*see* **2001b:65007a**)
**Sugiura, Hiroshi** *see* **Sakurai, Tetsuya, 2001k:65087**
**Villalba, Julio** *see* **Hormigo, Javier et al., (2001b:65007a)**
**Wolff von Gudenberg, Jürgen** *see* **Kreinovich, Vladik, 2001c:65059**
**Yager, Ronald R.** (*with* Kreinovich, Vladik) Fair division under interval uncertainty. (English summary) **2001e:65079**
**Zapata, Emilio L.** *see* **Hormigo, Javier et al., (2001b:65007a)**

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**(Csendes, Tibor)** *see* **Developments in reliable computing, 2001b:65007a** *and* **Proceedings: Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, 2001b:65007b**
**Dimitrova, Neli S.** (*with* Markov, Svetoslav M.) Verified computation of fast decreasing polynomials. (English summary) **2001g:65058**
**Markov, Svetoslav M.** On the algebraic properties of convex bodies and some applications. (English summary) **2001f:52002**
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**Muhanna, Rafi L.** *see* **Mullen, Robert L., (2001d:65007)**
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**Rogalev, A. N.** (*with* Shokin, Yu. I.) Investigation and estimation of solutions of ordinary differential equations by interval-symbolic methods. (Russian. English summary) **2001b:34018**
**Shokin, Yu. I.** *see* **Rogalev, A. N., 2001b:34018**
**Wolfe, Michael A.** On discrete minimax problems in **R** using interval arithmetic. (English summary) **2001h:65057**

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**Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics**
★ Proceedings of the International Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics. **2001b:65007b**
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**Scientific Computing, Computer Arithmetic and Validated Numerics** ★ Developments in reliable computing. **2001b:65007a**
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## 65G40 General methods in interval analysis

**Alefeld, Götz** (*with* Mayer, Günter) Interval analysis: theory and applications. (English summary) **2001d:65068**
**Alt, René** (*with* Lamotte, J.-L.) Experiments on the evaluation of functional ranges using a random interval arithmetic. (English summary) **2001m:65066**
**Frommer, Andreas** A feasibility result for interval Gaussian elimination relying on graph structure. (*see* **2001m:65007**)
**Hansen, Eldon R.** The hull of preconditioned interval linear equations. (English summary) **2001e:65080**
**Jackson, Kenneth R.** *see* **Nedialkov, Nedialko S., 2001b:65055**
**Jansson, Christian** Convex-concave extensions. (English summary) **2001d:65069**
**Jaulin, Luc** Path planning using intervals and graphs. (English summary)
**Kreinovich, Vladik** Beyond interval systems: what is feasible and what is algorithmically solvable? (English summary) (*see* **2001c:90005**)
**Lakeev, A. V.** On existence and uniqueness of solutions of linear algebraic equations in Kaucher's interval arithmetic. (English summary) **2001h:65060**
**Lamotte, J.-L.** *see* **Alt, René, 2001m:65066**
**Lebbah, Yahia** (*with* Lhomme, Olivier) Prediction by extrapolation for interval tightening methods. (English summary) (*see* **2001b:65007a**)
**Lerch, Michael** (*with* Wolff von Gudenberg, Jürgen) Multiaspect interval types. (*see* **2001b:65007a**)
**Lhomme, Olivier** *see* **Lebbah, Yahia, (2001b:65007a)**
**Litvinov, G. L.** (*with* Sobolevskiĭ, A. N.) Exact interval solutions of the discrete Bellman equation, and the polynomial complexity of problems in interval idempotent linear algebra. (Russian) **2001g:65061**
**Luther, Wolfram** (*with* Otten, Werner) Verified calculation of the solution of algebraic Riccati equation. (English summary) (*see* **2001b:65007a**)
**Lyashko, M. A.** A method for determining the asymptotic factor of convergence of the total step iterative method for interval systems of linear algebraic equations. (Russian. Russian summary) **2001a:65063**
**Mayer, Günter** *see* **Alefeld, Götz, 2001d:65068**
**Nakao, Mitsuhiro T.** *see* **Yamamoto, Nobito et al., (2001b:65005)**
**Nedialkov, Nedialko S.** (*with* Jackson, Kenneth R.) An interval Hermite-Obreschkoff method for computing rigorous bounds on the solution of an initial value problem for an ordinary differential equation. (English summary) **2001b:65055**
**Otten, Werner** *see* **Luther, Wolfram, (2001b:65007a)**
**Ratschek, Helmut** (*with* Rokne, Jon) Exact and optimal convex hulls in 2D. (English summary) **2001e:65081**
**Ribits'ka, O. M.** *see* **Syavavko, M. S.**
**Rihm, Robert** Acceleration of iteration methods for interval fixed point problems. (English summary) **2001j:65080**
**Rokne, Jon** *see* **Ratschek, Helmut, 2001e:65081**
**Schäfer, Uwe**[2] The linear complementarity problem with interval data. (*see* **2001m:65007**)
**Senashova, M. Yu.** Error estimates for signals in neural networks. (Russian. English summary)
**Shary, S. P.** Outer estimation of generalized solution sets to interval linear systems. (English summary) **2001e:65082**
**Sobolevskiĭ, A. N.** *see* **Litvinov, G. L., 2001g:65061**
**Syavavko, M. S.** (*with* Ribits'ka, O. M.) The indistinct continuous fractions.
**Watanabe, Yoshitaka** *see* **Yamamoto, Nobito et al., (2001b:65005)**
**Wolfe, Michael A.** Interval mathematics, algebraic equations and optimization. (English summary) (*see* **2001g:65011**)
**Wolff von Gudenberg, Jürgen** *see* **Lerch, Michael, (2001b:65007a)**
**Yamamoto, Nobito** (*with* Nakao, Mitsuhiro T.; Watanabe, Yoshitaka) Validated computation for a linear elliptic problem with a parameter. (English summary) (*see* **2001b:65005**)

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**Abdel-Aziz, Mohammedi R.** Implicitly restarted projection algorithm for solving optimization problems. (English summary) **2001g:90053**
**(Alefeld, Götz)** *see* **Symbolic algebraic methods and verification methods, 2001m:65007**
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**Barth, Wilhelm** *see* **Huber, Ernst**[3]**, (2001b:65007a)**
**Belov, V. M.** (*with* Sukhanov, V. A.; Unger, F. G.) ★ Теоретические и прикладные аспекты метода центра неопределенности. (Russian. English and Russian summaries) [Theoretical and applied aspects of the indeterminacy center method]
**Boyanov, Borislav D.** (*with* Petrov, Petar P.) Gaussian interval quadrature formula. (English summary) **2001k:65043**
**Brönnimann, Hervé** (*with* Burnikel, Christoph; Pion, Sylvain) Interval arithmetic yields efficient dynamic filters for computational geometry. (English summary) **2001k:65034**
**Burnikel, Christoph** *see* **Brönnimann, Hervé et al., 2001k:65034**
**Casado, L. G.** (*with* García-Fernández, I.; Csendes, Tibor) A new multisection technique in interval methods for global optimization. (English summary) **2001k:90076**
— (*with* Martínez, J. A.; García-Fernández, I.) Experiments with a new selection criterion in a fast interval optimization algorithm. (English summary) (*see* **2001m:90008**)
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**Claudio, Dalcidio M.** *see* **Dimuro, Graçaliz P. et al., 2001g:65059**
**Coope, I. D.** Reliable computation of the points of intersection of $n$ spheres in $\mathbf{R}^n$. (English summary) (*see* **2001i:65004**)
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**Csallner, András Erik** (*with* Csendes, Tibor; Markót, Mihály Csaba) Multisection in interval branch-and-bound methods for global optimization. I. Theoretical results. (English summary) **2001c:90063**
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**Ermakov, O. B.** Interval-analytical estimations of the fixed point of a Volterra integral operator with interval parameters. (*see* **2001d:65007**)
**Fernández, José Hernandez** (*with* Pelegrín Pelegrín, Blas) Sensitivity analysis in continuous location models via interval analysis. (English summary) (*see* **2001g:90011**)
**Frommer, Andreas** *see* **Qiu, Zhiping et al., 2001m:65055**
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**Ge, Zheng-Ming** (*with* Chu, Li-Wei) An interval method for computing the stability margin of real uncertainty problems. (English summary) **2001e:93059**
**Graves-Morris, Peter R.** Reliability of Lanczos-type product methods from perturbation theory. (English summary) **2001k:65060**
**Guibas, Leonidas J.** (*with* Karavelas, Menelaos I.) Interval methods for kinetic simulations. (English summary) (*see* **2001g:68004**)
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**Huber, Ernst[2]** (*with* Barth, Wilhelm) Surface-to-surface intersection with complete and guaranteed results. (English summary) (*see* **2001b:65007a**)
**Jansson, Christian** Quasiconvex relaxations based on interval arithmetic. (English summary) **2001k:90053**
**Jaulin, Luc** *see* **Kieffer, Michel et al., 2001h:93056**
**Karavelas, Menelaos I.** *see* **Guibas, Leonidas J., (2001g:68004)**
**Kieffer, Michel** (*with* Jaulin, Luc; Walter, Eric; Meizel, Dominique) Robust autonomous robot localization using interval analysis. (English summary) **2001h:93056**
**Klatte, Rudi** *see* **Csendes, Tibor et al.**
**Koeber, Martin** Verifying the existence of a zero for all elements of a function set. **2001h:65056**
**Lee, Wen H.** *see* **Edmonson, William W. et al., 2001f:93068**
**Markót, Mihály Csaba** An interval method to validate optimal solutions of the "packing circles in a unit square" problems. (English summary) (*see* **2001c:90012**)
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**Muller, Jean-Michel** A few results on table-based methods. (English summary) **2001h:65006**
**Müller, Peter C.** *see* **Qiu, Zhiping et al., 2001m:65055**
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**Oishi, Shin'Ichi** Fast enclosure of matrix eigenvalues and singular values via rounding mode controlled computation. (English summary) **2001m:65054**
**de Oliveira, Joao Batista S.** Evaluating Lipschitz constants for functions given by algorithms. (English summary) **2001g:90058**
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**Petrov, Petar P.** *see* **Boyanov, Borislav D., 2001k:65043**
**Pion, Sylvain** *see* **Brönnimann, Hervé et al., 2001k:65034**
**Qiu, Zhiping** (*with* Müller, Peter C.; Frommer, Andreas) An approximate method for the standard interval eigenvalue problem of real non-symmetric interval matrices. (English summary) **2001m:65055**
**Ratz, Dietmar** *see* **Csendes, Tibor et al.**
**Rodellar, José** *see* **Vehí, Josep et al., 2001h:93067**
**(Rohn, Jiří)** *see* **Symbolic algebraic methods and verification methods, 2001m:65007**
**Rump, Siegfried M.** Verified solution of large linear and nonlinear systems. (English summary) **2001j:65079**
**—** Computational error bounds for multiple or nearly multiple eigenvalues. (English summary) **2001k:65073**
**— *see also* Symbolic algebraic methods and verification methods, 2001m:65007**
**Sainz, Miguel Á.** *see* **Vehí, Josep et al., 2001h:93067; 2001m:65004** *and* **Modal intervals and its applications, 2001m:65004**
**Shen, Pei-ping** (*with* Yang, Shou Zhi) An interval algorithm for finding all global minimizers of a nonsmooth function of several variable. (English and Chinese summaries) **2001j:90094**
**Šiljak, Dragoslav D.** *see* **Stipanović, Dušan M., 2001e:65054**
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## 65G50 Roundoff error

**Arioli, M.** The use of $QR$ factorization in sparse quadratic programming and backward error issues. (English summary) **2001c:65062**
**Darvishi, M. T.** New algorithms for solving ODEs by pseudospectral method. (English summary) **2001c:65063**
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# 65Hxx Nonlinear algebraic or transcendental equations

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**—** Rational solutions of linear difference and $q$-difference equations with polynomial coefficients. (Russian. Russian summary) **2001e:65083**
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**Backhaus, Katja** *see* **Herzberger, Jürgen, (2001d:65007)**
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## 65H10 Systems of equations

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**Gasparo, Maria Grazia** (*with* Morini, G.) Inexact methods: forcing terms and conditioning. (English summary) **2001k:65089**
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**Li, Chong[1]** (*with* Wang, Xing Hua) Gauss-Newton methods for a class of nonsmooth optimization problems. (English summary)
**Lopes, Véra Lucia Rocha** *see* **Krejić, Nataša et al., 2001c:65087**
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**Maličić, Helena** *see* **Herceg, Dragoslav et al.**
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**Pérez, Rosana** *see* **Krejić, Nataša et al., 2001e:65087**
**Potemkin, V. G.** *see* **Borisevich, V. D. et al., 2001g:65066** *and* **2001g:65067**
**Prasad, S.** *see* **Sundar, Subbiah et al.**
**Puddu, Susana** *see* **Heintz, Joos et al., 2001c:65067**
**Qi, Liqun** *see* **Chen, Xiao Jun[1] et al., 2001h:65064**
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**Risler, Franck** (*with* Rey, Christian) Iterative accelerating algorithms with Krylov subspaces for the solution to large-scale nonlinear problems. (English summary) **2001e:65088**
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**Shakhno, Stepan** Some numerical methods for nonlinear least squares problems. (*see* **2001m:65007**)
**Shalashilin, V. I.** *see* **Kuznetsov, E. B., 2001j:65086**
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**Tanaka, Shigeru[1]** *see* **Yamamura, Kiyotaka, (2001f:65006)**
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**Tilli, Paolo** Convergence conditions of some methods for the simultaneous computation of polynomial zeros. (English summary) **2001g:65068**
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**Verschelde, Jan** Numerical evidence for a conjecture in real algebraic geometry. (English summary) **2001i:65062**
**Waissbein, Ariel** *see* **Heintz, Joos et al., 2001c:65067**
**Wang, De Ren** *see* **Zhang, Jian Jun, 2001c:65069** *and* **2001f:65063**
**Wang, Xing Hua** *see* **Li, Chong[1]**
**Wang, Yuan Ming[2]** Accelerated monotone iterative methods for a boundary value problem of second-order discrete equation. (English and Chinese summaries) **2001c:65068**
**Wood, H. G.** *see* **Borisevich, V. D. et al., 2001g:65066** *and* **2001g:65067**
**Xu, Ke Kang** (*with* Gao, Zhi Qiang) Polynomial matrix equations and linear control systems. (Chinese. English and Chinese summaries)
**Xue, Yi** (*with* Yang, Zhong Hua[2]) A practical method for solving nonlinear least squares problems. (Chinese. English summary)
**Yakoubsohn, Jean-Claude** Contraction, robustness, and numerical path-following using secant maps. (English summary) **2001f:65062**
**Yamamura, Kiyotaka** (*with* Tanaka, Shigeru[1]) Finding all solutions of nonlinear equations using the dual simplex method. (English summary) (*see* **2001f:65006**)
**Yang, Zhong Hua[2]** *see* **Xue, Yi**
**Zhang, Jian Jun** (*with* Wang, De Ren) On the convergence of generalized Newton method. (Chinese. English and Chinese summaries) **2001c:65069**
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**Zhang, Xin Ping** *see* **Zhao, Shuang Suo**
**Zhao, Shuang Suo** A parallel implementation scheme for the simplified Newton iteration method for solving block-nonlinear equation systems. (Chinese. English and Chinese summaries)
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**Abramov, Sergei A.** (*with* Zima, Eugene V.) Minimal completely factorable annihilators. (English summary) (*see* **2001i:68010**)
**Akuzawa, Toshinao** (*with* Murata, Noboru) Multiplicative nonholonomic/Newton-like algorithm. (English summary) **2001k:65020**
**Alefeld, Götz** Interval arithmetic tools for range approximation and inclusion of zeros. **2001h:65058**
**Allen, E. J.** (*with* Baglama, J.; Boyd, S. K.) Numerical approximation of the product of the square root of a matrix with a vector. (English summary) **2001c:65050**
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**Chan, Tony F. C.** (*with* Shen, Jianhong) Variational restoration of nonflat image features: models and algorithms. (English summary) **2001m:94004**
**Chu, Delin** (*with* De Moor, Bart) On the nonuniqueness of the factorization factors in the product singular value decomposition. (English summary) **2001f:65041**
**De Moor, Bart** *see* **Chu, Delin, 2001f:65041**
**Dian, Jianwei** *see* **Kearfott, R. Baker et al., 2001e:65078**
**Dontchev, Asen L.** Lipschitzian stability of Newton's method for variational inclusions. (English summary) **2001h:49027**
**Dzitac, Ioan** Random-filtered asynchronous iterative method. (English summary)
**Ermakov, Sergei Mikhallovich** (*with* Kaloshin, I. V.) Solving the nonlinear algebraic equations with Monte Carlo method. (English summary) (*see* **2001d:62002**)
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**Feng, Shao Qiang** *see* **Jia, Zhong Xiao**
**Finta, Béla** Some new results concerning iterative methods. (English summary)
**Giusti, Marc** *see* **Bank, Bernd et al., (2001c:90006)**
**Guan, Lü Tai** (*with* Lu, Feng; Yang, Zhao Xia) Seeking surface/surface intersection by using projection. (Chinese. English and Chinese summaries)
**Ha, Ming Hu** *see* **Wang, Xi Zhao et al., (2001i:90010)**
**Heintz, Joos** *see* **Bank, Bernd et al., (2001c:90006)**
**Herceg, Dragoslav** (*with* Maličić, Helena) On acceleration of solving singularly perturbed boundary value problem. (English summary) **2001m:65094**
**Huang, Ming-Deh A.** (*with* Rao, Ashwin J.) A black box approach to the algebraic set decomposition problem. (*see* **2001d:68026**)
**Jay, Laurent O.** Inexact simplified Newton iterations for implicit Runge-Kutta methods. (English summary) **2001i:65077**
**Jbilou, K.** (*with* Sadok, H.) Vector extrapolation methods. Applications and numerical comparison. (English summary) **2001h:65009**
**Jia, Zhong Xiao** (*with* Feng, Shao Qiang) An error analysis of a hybrid method for least squares problems. (Chinese. English and Chinese summaries)
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**Koeber, Martin** Verifying the existence of a zero for all elements of a function set. **2001h:65056**
**Kojima, Masakazu** *see* **Nakata, Kazuhide et al., (2001b:90003)**
**Kravanja, Peter** (*with* Van Barel, Marc) ★ Computing the zeros of analytic functions. **2001c:65004**
**Krivoĭ, S. L.** On some methods for solving and criteria for the compatibility of systems of linear Diophantine equations in the domain of natural numbers. (Russian. English and Ukrainian summaries) **2001a:11207**
**Li, Huan Qin** (*with* Xu, Cheng Xian) Convergence of quasi-Newton methods with a modified SR1 update. (Chinese. English and Chinese summaries)
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**Mourrain, Bernard** (*with* Pan, Victor Y.) Asymptotic acceleration of solving multivariate polynomial systems of equations. (*see* **2001d:68026**)
**Murata, Noboru** *see* **Akuzawa, Toshinao, 2001k:65020**
**Nakao, Mitsuhiro T.** Numerical verification methods for solutions of ordinary and partial differential equations. (English summary) (*see* **2001i:00039**)
**Nakata, Kazuhide** (*with* Zhang, Shao-Liang; Kojima, Masakazu) Conjugate gradient methods for preprocessing of large-scale linear equation systems arising in semidefinite programming problems. (Japanese) (*see* **2001b:90003**)
**Neumaier, Arnold** *see* **Kearfott, R. Baker et al., 2001e:65078**
**Noschese, S.** (*with* Pasquini, L.) Condition and stability problems. (English and Italian summaries) (*see* **2001i:65003**)
**Ogasawara, Hideho** (*with* Yabe, Hiroshi) Superlinear convergence of factorized structured quasi-Newton methods for nonlinear optimization. (English summary) **2001e:90144**
**Pan, Victor Y.** *see* **Mourrain, Bernard, (2001d:68026)**
**Pasquini, L.** *see* **Noschese, S., (2001i:65003)**
**Pop, Nicolae** A generalized concept of differentiability in Newton's method for contact problems. (English summary)
**Rao, Ashwin J.** *see* **Huang, Ming-Deh A., (2001d:68026)**
**Sadok, H.** *see* **Jbilou, K., 2001h:65009**
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**Shen, Jianhong** *see* **Chan, Tony F. C., 2001m:94004**
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**Soriano Arbizu, J. M.** Zeros of compact perturbations of proper mappings. (English summary) **2001k:58016**
**Stipanović, Dušan M.** (*with* Šiljak, Dragoslav D.) Jacobi and Gauss-Seidel iterations for polytopic systems: convergence via convex $M$-matrices. (English summary) **2001e:65054**
**Van Barel, Marc** *see* **Kravanja, Peter, 2001c:65004**
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**Wang, Xi Zhao** (*with* Zhong, Zimian; Ha, Ming Hu) Iteration algorithms for solving a system of fuzzy linear equations. (English summary) (*see* **2001i:90010**)
**Watson, G. A.** Least squares fitting of parametric surfaces to measured data. (English summary) (*see* **2001i:65004**)
**Wolfe, Michael A.** Interval mathematics, algebraic equations and optimization. (English summary) (*see* **2001g:65011**)
**Xu, Cheng Xian** *see* **Li, Huan Qin**
**Yabe, Hiroshi** *see* **Ogasawara, Hideho, 2001e:90144**
**Yang, Zhao Xia** *see* **Guan, Lü Tai et al.**
**Zhang, Shao-Liang** *see* **Nakata, Kazuhide et al., (2001b:90003)**
**Zhong, Zimian** *see* **Wang, Xi Zhao et al., (2001i:90010)**
**Zima, Eugene V.** *see* **Abramov, Sergei A., (2001i:68010)**

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**Lecture Notes in Mathematics** *see* **Kravanja, Peter, 2001c:65004**

## 65H17 Eigenvalues, eigenvectors [see also 47Hxx, 47Jxx, 58C40, 58E07, 90C30]

**Brezhneva, O. A.** (*with* Izmailov, Alekseĭ Feridovich; Tret'yakov, A. A.; Khmura, A.) An approach to the search for singular solutions of a system of nonlinear equations of general form. (Russian. Russian summary) **2001f:65064**
**Gao, Tangan** (*with* Li, Tien-Yien; Verschelde, Jan; Wu, Mengnien) Balancing the lifting values to improve the numerical stability of polyhedral homotopy continuation methods. (English summary) **2001e:65089**
**Izmailov, Alekseĭ Feridovich** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Khmura, A.** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Li, Tien-Yien** *see* **Gao, Tangan et al., 2001e:65089**
**Lopez, S.** An effective parametrization for asymptotic extrapolations. (English summary) **2001d:65078**
**Reddien, George W.** Applications of implicit Liapunov-Schmidt reductions. (English summary) **2001a:65068**
**Rheinboldt, Werner C.** Numerical continuation methods: a perspective. (English summary) (*see* **2001g:65011**)
**Tret'yakov, A. A.** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Verschelde, Jan** *see* **Gao, Tangan et al., 2001e:65089**
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**Chen, Wen De** Cycle times assignment of nonlinear discrete event dynamic systems. (English summary) **2001c:93062**
**Chu, Delin** (*with* De Lathauwer, Lieven; De Moor, Bart) On the computation of the restricted singular value decomposition via the cosine-sine decomposition. (English summary) **2001g:65038**
**De Lathauwer, Lieven** *see* **Chu, Delin et al., 2001g:65038**
**De Moor, Bart** *see* **Chu, Delin et al., 2001g:65038**
**Loginov, B. V.** (*with* Rakhimov, D. G.; Sidorov, Nikolaĭ Aleksandrovich) Development of M. K. Gavurin's pseudoperturbation method. (English summary) **2001f:47035**
**Rakhimov, D. G.** *see* **Loginov, B. V. et al., 2001f:47035**
**Sidorov, Nikolaĭ Aleksandrovich** *see* **Loginov, B. V. et al., 2001f:47035**

## 65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

**Chiang, Hsiao-Dong** *see* **Lee, Jaewook**
**Fujisawa, Katsuki** *see* **Takeda, Akiko et al., (2001m:90005)**
**Kojima, Masakazu** *see* **Takeda, Akiko et al., (2001m:90005)**
**Lee, Jaewook** (*with* Chiang, Hsiao-Dong) Constructive homotopy methods for finding all or multiple DC operating points of nonlinear circuits and systems. (English summary)
— (*with* Chiang, Hsiao-Dong) Convergent regions of the Newton homotopy method for nonlinear systems: theory and computational applications. (English summary)
**López Almansa, F.** *see* **Mačkiewicz, A. et al.**
**Mačkiewicz, A.** (*with* López Almansa, F.; Purroy, F.) New homotopy strategies for solving systems of non-differentiable equations. Mechanical applications. (English summary)
**Purroy, F.** *see* **Mačkiewicz, A. et al.**
**Takeda, Akiko** (*with* Kojima, Masakazu; Fujisawa, Katsuki) A combinatorial problem arising from polyhedral homotopies for solving polynomial systems. (*see* **2001m:90005**)
**Verschelde, Jan** Toric Newton method for polynomial homotopies. (English summary) **2001e:65090**
**Walker, Homer F.** An adaptation of Krylov subspace methods to path following problems. (English summary) **2001d:65079**

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**Böhmer, K.** (*with* Mei, Zhen; Schwarzer, A.; Sebastian, R.) Path-following of large bifurcation problems with iterative methods. (English summary) **2001b:65144**
**Brezhneva, O. A.** (*with* Izmailov, Alekseĭ Feridovich; Tret'yakov, A. A.; Khmura, A.) An approach to the search for singular solutions of a system of nonlinear equations of general form. (Russian. Russian summary) **2001f:65064**
**Farkas, Henrik** *see* **Simon, Peter L. et al., 2001j:34047**
**Ferris, Michael C.** (*with* Munson, Todd S.; Ralph, Daniel) A homotopy method for mixed complementarity problems based on the PATH solver. (English summary) **2001f:90054**
**Huang, Qing Dao** *see* **Liu, Wen Bin[1] et al., 2001k:55008**
**Izmailov, Alekseĭ Feridovich** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Keller, H. B.** Path following and bifurcations in scientific computing. **2001h:47105**
**Khmura, A.** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Kuznetsov, E. B.** *see* **Shalashilin, V. I., 2001i:65002**
**Liu, Wen Bin[1]** (*with* Shi, Shao Yun; Huang, Qing Dao) Constructive proofs of the Brouwer type coincidence theorems. (English summary) **2001k:55008**
**Luo, W.-J.** *see* **Yang, R.-J., (2001c:76002)**
**Mei, Zhen** *see* **Böhmer, K. et al., 2001b:65144**
**Munson, Todd S.** *see* **Ferris, Michael C. et al., 2001f:90054**
**Osborne, Michael R.** (*with* Presnell, Brett; Turlach, Berwin A.) A new approach to variable selection in least squares problems. (English summary) **2001g:65054**
**Pasquini, L.** Accurate computation of the zeros of the generalized Bessel polynomials. (English summary) **2001i:65030**
**Plestenjak, Bor** A continuation method for a right definite two-parameter eigenvalue problem. (English summary) **2001h:65044**
**Presnell, Brett** *see* **Osborne, Michael R. et al., 2001g:65054**
**Ralph, Daniel** *see* **Ferris, Michael C. et al., 2001f:90054**
**Schwarzer, A.** *see* **Böhmer, K. et al., 2001b:65144**
**Sebastian, R.** *see* **Böhmer, K. et al., 2001b:65144**
**Shalashilin, V. I.** (*with* Kuznetsov, E. B.) ★ Метод продолжения решения по параметру и наилучшая параметризация в прикладной математике и механике. (Russian. Russian summary) [The method of continuation of the solution with respect to the parameter and best parametrization in applied mathematics and mechanics] **2001i:65002**
**Shi, Shao Yun** *see* **Liu, Wen Bin[1] et al., 2001k:55008**
**Simon, Peter L.** (*with* Farkas, Henrik; Wittmann, Mária) Constructing global bifurcation diagrams by the parametric representation method. (English summary) **2001j:34047**
**Tret'yakov, A. A.** *see* **Brezhneva, O. A. et al., 2001f:65064**
**Turlach, Berwin A.** *see* **Osborne, Michael R. et al., 2001g:65054**
**Verschelde, Jan** Numerical evidence for a conjecture in real algebraic geometry. (English summary) **2001i:65062**
**Watson, Layne T.** Theory of globally convergent probability-one homotopies for nonlinear programming. (English summary) **2001m:90106**
**Wittmann, Mária** *see* **Simon, Peter L. et al., 2001j:34047**
**Yakoubsohn, Jean-Claude** Contraction, robustness, and numerical path-following using secant maps. (English summary) **2001f:65062**
**Yang, R.-J.** (*with* Luo, W.-J.) Predicting multiple solutions of a spherical Taylor-Couette flow by a continuation method. (English summary) (*see* **2001c:76002**)

## 65H99 None of the above, but in this section

Items with secondary classifications in 65H99

**Jin, Qi-Nian** On the iteratively regularized Gauss-Newton method for solving nonlinear ill-posed problems. (English summary) **2001a:65073**

# 65Jxx Numerical analysis in abstract spaces

## 65J05 General theory

**Agulló, José** New algorithms for computing the least trimmed squares regression estimator. (English summary)
**Titarenko, V. N.** (*with* Yagola, A. G.) Application of the GCV method for well-posed and ill-posed problems. (Russian. Russian summary)
**Yagola, A. G.** *see* **Titarenko, V. N.**

## 65J10 Equations with linear operators (do not use 65Fxx)

**Abramov, A. A.** (*with* Belash, V. O.; Yukhno, L. F.) Modification of certain elimination methods. (Russian. Russian summary) **2001m:65069**
**Akhmadishina, F. K.** On the asymptotic optimality of projection methods. (Russian)
**Alam, Rafikul** (*with* Kulkarni, Rekha P.; Limaye, Balmohan V.) Accelerated spectral refinement. II. Cluster of eigenvalues. (English summary) **2001g:65069**
— (*with* Kulkarni, Rekha P.; Limaye, Balmohan V.) Accelerated spectral refinement. I. Simple eigenvalue. (English summary) **2001b:65062**
**Bakaev, Nikolai Yu.** Analysis of discretizations of parabolic problems in pairs of spaces. (English summary) **2001c:65070**
**Bauschke, Heinz H.** (*with* Deutsch, Frank; Hundal, Hein; Park, Sung Ho[1]) Fejér monotonicity and weak convergence of an accelerated method of projections. (English summary) **2001f:65065**
**Belash, V. O.** *see* **Abramov, A. A. et al., 2001m:65069**
**Deutsch, Frank** *see* **Bauschke, Heinz H. et al., 2001f:65065**
**Huhtanen, Marko** (*with* Nevanlinna, Olavi) Minimal decompositions and iterative methods. (English summary) **2001i:65063**
**Hundal, Hein** *see* **Bauschke, Heinz H. et al., 2001f:65065**
**Izmailov, Aleksei Feridovich** (*with* Karmanov, V. G.; Tret'yakov, A. A.) The gradient method for linear approximate schemes. (Russian. Russian summary) **2001a:65069**
**Karmanov, V. G.** *see* **Izmailov, Aleksei Feridovich et al., 2001a:65069**
**Kulkarni, Rekha P.** *see* **Alam, Rafikul et al., 2001b:65062** *and* **2001g:65069**
**Leonov, A. S.** (*with* Yagola, A. G.) Optimal methods for solving ill-posed problems with source-representable solutions. (Russian. English and Russian summaries) **2001k:65090**
**Limaye, Balmohan V.** *see* **Alam, Rafikul et al., 2001b:65062** *and* **2001g:65069**
**Nevanlinna, Olavi** *see* **Huhtanen, Marko, 2001i:65063**
**Park, Sung Ho[1]** *see* **Bauschke, Heinz H. et al., 2001f:65065**
**Plato, Robert** The solution of linear semidefinite ill-posed problems by the conjugate residual method. (English summary) (*see* **2001a:47005**)
**Tret'yakov, A. A.** *see* **Izmailov, Aleksei Feridovich et al., 2001a:65069**
**Yagola, A. G.** *see* **Leonov, A. S., 2001k:65090**
**Yukhno, L. F.** *see* **Abramov, A. A. et al., 2001m:65069**

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**Beattie, Christopher** Galerkin eigenvector approximations. (English summary) **2001a:65131**
**Besag, Julian** *see* **Bunea, Florentina, 2001j:65009**
**Bunea, Florentina** (*with* Besag, Julian) MCMC in $I \times J \times K$ contingency tables. (English summary) **2001j:65009**
**Dakhno, N. B.** A two-step variational-gradient method for equations with a $K$-positive definite and $K$-symmetric operator. (Ukrainian. English summary) **2001m:47023**
**Dewilde, Patrick M.** (*with* van der Veen, A.-J.) Inner-outer factorization and the inversion of locally finite systems of equations. (English summary) **2001b:65050**
**Duru, Hakkı** *see* **Gülle, Aytekin et al., 2001j:65153**
**Ferng, William R.** (*with* Kelley, C. T.) Mesh independence of matrix-free methods for path following. (English summary) **2001h:65051**
**Gilyazov, S. F.** (*with* Gol'dman, N. L.) ★ Regularization of ill-posed problems by iteration methods. (English summary) **2001b:65001**
**Gol'dman, N. L.** *see* **Gilyazov, S. F., 2001b:65001**
**Gülle, Aytekin** (*with* Duru, Hakkı; Mamedov, Yahya D.) Convergence of various iterations to solution of boundary value problem for abstract elliptic equation. (English summary) **2001j:65153**
**He, Guo Qiang** An $r$-step quasi discrepancy principle for implicit iterative methods for solving ill-posed linear equations. (Chinese. Chinese summary) **2001j:65096**
**Ji, Da Qin** *see* **Wang, Yu Wen, 2001d:47007**
**Kelley, C. T.** *see* **Ferng, William R., 2001h:65051**
**Korzyuk, V. I.** *see* **Samarskiĭ, Aleksandr Andreevich et al., 2001d:65112**
**Lemeshevskiĭ, S. V.** *see* **Samarskiĭ, Aleksandr Andreevich et al., 2001d:65112**
**Lokshin, A. A.** (*with* Lopatnikov, S. L.; Saakyan, A. S.) ★ Метод сжатых отображений в симметричной проблеме собственных значений. (Russian. Russian summary) [The method of contraction mappings in the symmetric eigenvalue problem] **2001h:47025**
**Lopatnikov, S. L.** *see* **Lokshin, A. A. et al., 2001h:47025**
**Mamedov, Yahya D.** *see* **Gülle, Aytekin et al., 2001j:65153**
**Matus, Petr P.** *see* **Samarskiĭ, Aleksandr Andreevich et al., 2001d:65112**
**Panyukov, A. V.** An extremal method for solving a parametric inverse problem for a system of linear functional equations. (Russian) **2001j:65099**
**Pereverzev, Sergei V.** (*with* Schock, Eberhard) Morozov's discrepancy principle for Tikhonov regularization of severely ill-posed problems in finite-dimensional subspaces. (English summary) **2001k:65102**
**Pleshchinskiĭ, N. B.** On the abstract theory of approximate methods for solving linear operator equations. (Russian) **2001f:65073**
**Pousin, J.** (*with* Sassi, T.) Domain decomposition with non matching grids and adaptive finite element techniques. (English summary) **2001k:65189**
**Saakyan, A. S.** *see* **Lokshin, A. A. et al., 2001h:47025**
**Samarskiĭ, Aleksandr Andreevich** (*with* Korzyuk, V. I.; Lemeshevskiĭ, S. V.; Matus, Petr P.) Finite-difference methods for problem of conjugation of hyperbolic and parabolic equations. (English summary) **2001d:65112**
**Sassi, T.** *see* **Pousin, J., 2001k:65189**
**Schock, Eberhard** *see* **Pereverzev, Sergei V., 2001k:65102**
**Schötzau, Dominik** (*with* Schwab, Christoph) Time discretization of parabolic problems by the $hp$-version of the discontinuous Galerkin finite element method. (English summary) **2001i:65107**
**Schwab, Christoph** *see* **Schötzau, Dominik, 2001i:65107**
**Trubnikov, Yu. V.** On a method for finding Chebyshev iteration parameters. (Russian. English and Russian summaries) **2001c:47016**
**van der Veen, A.-J.** *see* **Dewilde, Patrick M., 2001b:65050**
**Wang, Yu Wen** (*with* Ji, Da Qin) The Tseng-metric generalized inverse for linear operators in Banach spaces. (Chinese. English and Chinese summaries) **2001d:47007**
**Wei, Yi Min** Representations and perturbations of Drazin inverses in Banach spaces. (Chinese. Chinese summary) **2001b:47005**

## 65J15 Equations with nonlinear operators (do not use 65Hxx)

**Ahn, S. G.** (*with* Kang, Shin Min; Huang, Nan Jing; Cho, Yeol Je) Iterative processes with errors for nonlinear equations of $\varphi$-strongly accretive operators in arbitrary Banach spaces. (English summary) **2001j:65087**
**Argyros, Ioannis K.** On the monotone convergence of an Euler-Chebysheff-type method in partially ordered topological spaces.
— (*with* Cătinaş, Emil; Păvăloiu, Ion) Improving the rate of convergence of some Newton-like methods for the solution of nonlinear equations containing a nondifferentiable term.
— Local convergence of inexact Newton methods under affine invariant conditions and hypotheses on the second Fréchet derivative. (English summary) **2001a:65071**
— Relations between forcing sequences and inexact Newton iterates in Banach space. (English summary) **2001h:65066**
— Accessibility of solutions of equations on Banach spaces by a Newton-like methods and applications. (English summary) **2001m:65072**
— Accessibility of solutions of equations on Banach spaces by a Stirling-like method. (English summary) **2001m:65073**
— Error bounds for the Halley-Werner method in Banach spaces. (English summary) **2001m:65074**
— On a two-point Newton method in Banach spaces and the Ptàk error estimates. (English summary) **2001m:65071**
— Concerning the convergence of a modified Newton-like method. (English summary) **2001g:65071**
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## 65J20 Improperly posed problems; regularization

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— Converse and saturation results on Tikhonov regularization together with a posteriori parameter choice. (English summary) **2001b:65067**
— On the iteratively regularized Gauss-Newton method for solving nonlinear ill-posed problems. (English summary) **2001a:65073**
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— (*with* Amato, Umberto) A discrete scheme of Landweber iteration for solving nonlinear ill-posed problems. (English summary) **2001k:65101**
**Kaltenbacher, Barbara** Regularization by projection with a posteriori discretization level choice for linear and nonlinear ill-posed problems. (English summary) **2001h:65070**
— A projection-regularized Newton method for nonlinear ill-posed problems and its application to parameter identification problems with finite element discretization. (English summary) **2001f:65070**
**Kokurin, M. Yu.** On the necessary conditions for the given convergence of methods of solution for linear ill-posed problems. (English summary)
— (*with* Yusupova, N. A.) On nondegenerate estimates for the rate of convergence of iterative methods for solving some ill-posed nonlinear operator equations. (Russian. Russian summary) **2001h:65071**

**Krnić, I.** *see* **Jačimović, M., 2001i:65070**
**Kunisch, Karl** *see* **Ito, Kazufumi, 2001f:65069**
**Lamm, Patricia K.** *see* **Cinzori, Aaron C., 2001h:65068**
**Leonov, A. S.** Generalization of the maximal entropy method for solving ill-posed problems. (Russian. Russian summary) **2001i:65071**
— (*with* Yagola, A. G.) On the justification of the maximal entropy method for solving ill-posed problems. (Russian. Russian summary)
**Li, Gong Sheng** (*with* Ma, Yi Chen) A regularization strategy for solving operator equations of the first kind. (Chinese. English and Chinese summaries) **2001e:65096**
— *see also* **Wang, Jia-jun**
**Ma, Yi Chen** *see* **Li, Gong Sheng, 2001e:65096**
**Maaß, Peter** (*with* Pereverzev, Sergei V.; Ramlau, Ronny; Solodkiĭ, S. G.) An adaptive discretization for Tikhonov-Phillips regularization with a posteriori parameter selection. (English summary) **2001m:65079**
**Mokrushin, A. A.** *see* **Vasin, V. V., 2001g:65078**
**Morozov, Vladimir A.** Generalized "source-likeness" and the rate of convergence of regularized solutions. (Russian. English and Russian summaries) (*see* **2001g:00017**)
— Some aspects of restoration of signals by a regularization method. (English summary) **2001f:65071**
**Nair, M. Thamban** An iterated regularized approximation procedure for ill-posed operator equations. (English summary)
— An iterated version of Lavrent'iev's method for ill-posed equations with approximately specified data. (English summary) **2001f:65072**
**Navon, I. Michael** *see* **Alekseev, A. K.**
**Neubauer, Andreas** On Landweber iteration for nonlinear ill-posed problems in Hilbert scales. (English summary) **2001d:65081**
**Pereverzev, Sergei V.** (*with* Schock, Eberhard) Morozov's discrepancy principle for Tikhonov regularization of severely ill-posed problems in finite-dimensional subspaces. (English summary) **2001k:65102**
— (*with* Solodkiĭ, S. G.) Optimal discretization of ill-posed problems. (Russian. English and Ukrainian summaries) **2001d:65082**
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**Piskarev, S.** *see* **Burrage, Kevin, 2001i:65069**
**Pleshchinskiĭ, N. B.** On the abstract theory of approximate methods for solving linear operator equations. (Russian) **2001f:65073**
**Ramlau, Ronny** *see* **Maaß, Peter et al., 2001m:65079**
**Ramm, Alexander G.** *see* **Airapetyan, Ruben G., 2001i:65068**
**Ring, Wolfgang** Structural properties of solutions to total variation regularization problems. (English summary) **2001g:65077**
**Rydygier, Edward** (*with* Trzaska, Zdzisław) Application of special smoothing procedure to numerical solutions of inverse problems for real 2-D systems. (English summary) (*see* **2001i:00040**)
**Scherzer, Otmar** *see* **Groetsch, Charles W., 2001m:65078**
**Schock, Eberhard** *see* **Pereverzev, Sergei V., 2001k:65102**
**Schott, Dieter** Signal reconstruction from given phase of the Fourier transform using Fejér monotone methods. (English summary) **2001e:65097**
**Ségui, Lionel** A modified Gauss-Newton method for the detection of defects in lossy diffractive media. (English summary) (*see* **2001e:00021**)
**Solodkiĭ, S. G.** Optimization of projection schemes for the discretization of ill-posed problems. (Russian. English and Ukrainian summaries) **2001f:65074**
— *see also* **Pereverzev, Sergei V., 2001d:65082** *and* **Maaß, Peter et al., 2001m:65079**
**Tang, Jian Guo**[2] (*with* He, Guo Qiang) A stationary two-step implicit iterative method for ill-posed operator equations. (Chinese. English summary)
**Trzaska, Zdzisław** *see* **Rydygier, Edward, (2001i:00040)**
**Vasin, V. V.** (*with* Mokrushin, A. A.) Iterative processes of Gauss-Newton type for ill-posed operator equations. (Russian) **2001g:65078**
**Vogel, Curtis R.** *see* **Hanke, Martin, 2001h:65069**
**Wang, Jia-jun** (*with* Li, Gong Sheng) A modified Tikhonov regularization method for solving ill-posed problems. I. Construction of regularization. (English and Chinese summaries)
**Wedin, Per-Åke** *see* **Gulliksson, Mårten, 2001g:65074**
**Yagola, A. G.** (*with* Dorofeev, Konstantin) Sourcewise representation and a posteriori error estimates for ill-posed problems. (English summary) **2001a:65074**
— *see also* **Leonov, A. S.**
**Yamamoto, Masahiro** *see* **Cheng, Jin**[2], **2001g:65073**
**Yang, Hong Qi** (*with* Hou, Zong Yi) Convergence rates of regularized solutions of nonlinear operator equations of the first kind involving monotone operators. (Chinese. English and Chinese summaries) **2001h:65072**
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**Adly, Samir** (*with* Goeleven, Daniel) A discretization theory for a class of semi-coercive unilateral problems. (English summary) **2001h:49013**
**Ageev, A. L.** *see* **Vasin, V. V., 2001j:65001**
**Andreani, Roberto** (*with* Martínez, José Mario; Svaiter, Benar Fux) On the regularization of mixed complementarity problems. (English summary) **2001f:90053**
**Argyros, Ioannis K.** (*with* Verma, Ram U.) Approximation-solvability of nonlinear variational inequalities and partially relaxed monotone mappings. (English summary)
**Attouch, H.** (*with* Champion, T.) $L^p$ regularization of the non-parametric minimal surface problem. (English summary) **2001g:49062**
**Baasansuren, J.** (*with* Khan, Akhtar Ali) Regularized auxiliary problem principle for variational inequalities. (English summary) **2001e:49015**
**Banks, H. T.** (*with* Joyner, Michele L.; Wincheski, Buzz; Winfree, William P.) Nondestructive evaluation using a reduced-order computational methodology. (English summary) **2001e:78022**
**Barashkov, A. S.** ★ Small parameter method in multidimensional inverse problems. **2001a:35186**
**Boyd, Stephen** *see* **Maeght, Jean et al., 2001f:92013**
**Brezzi, Franco** (*with* Russo, Alessandro) Stabilization techniques for the finite element method. **2001i:65121**
**Bruckner, Gottfried** (*with* Yamamoto, Masahiro) On a noisy operator equation and the identification of point-sources in the 1-D wave equation. (English summary) **2001c:47017**
**Calvetti, Daniela** (*with* Morigi, Serena; Reichel, Lothar; Sgallari, F.) Tikhonov regularization and the *L*-curve for large discrete ill-posed problems. (English summary) **2001h:65048**
**de Campos Velho, H. F.** *see* **Muniz, W. B. et al., 2001d:80010**
**Champion, T.** *see* **Attouch, H., 2001g:49062**
**D'yakonov, E. G.** Improved well-posedness of problems in mathematical physics associated with linear constraints. (Russian. Russian summary) **2001i:35235**
**Feng, En Min** *see* **Yan, Gui Feng**
**Giannessi, Franco** (*with* Khan, Akhtar Ali) Regularization of non-coercive quasi variational inequalities. (English summary) **2001f:49019**
**Gilyazov, S. F.** (*with* Gol'dman, N. L.) ★ Regularization of ill-posed problems by iteration methods. (English summary) **2001b:65001**
**Goeleven, Daniel** *see* **Adly, Samir, 2001h:49013**
**Gol'dman, N. L.** *see* **Gilyazov, S. F., 2001b:65001**
**Gowda, M. Seetharama** *see* **Ravindran, G., 2001m:90113**
**Grebennikov, A. I.** Spline algorithms for data processing and solving some inverse problems. (*see* **2001d:65007**)
**Grossmann, Christian** Separation of linear components in nonlinear boundary heat control. (English summary) **2001g:49032**
**Gulliksson, Mårten** (*with* Wedin, Per-Åke; Wei, Yi Min) Perturbation identities for regularized Tikhonov inverses and weighted pseudoinverses. (English summary) **2001g:65047**
**Hermann, Ulrike** (*with* Noll, Dominikus) Adaptive image reconstruction using information measures. (English summary) **2001i:49070**
**Hofmann, Bernd** Ill-posedness and local ill-posedness concepts in Hilbert spaces. (English summary) **2001e:49046**
**Hu, Xin Qi** Iterative algorithms for a class of variational inequalities. (Chinese. English and Chinese summaries)
**Huang, Zhenyu** Stability results for generalized contractive mappings. (English summary) **2001i:47111**
**Iqbal, Mohammad**[1] Spline regularization of numerical inversion of Mellin transform. (English summary) **2001b:65147**
**Joyner, Michele L.** *see* **Banks, H. T. et al., 2001e:78022**
**Kalashnikov, Vyacheslav Vital'evich** (*with* Khan, Akhtar Ali) A regularization approach for variational inequalities with pseudo-monotone operators. (English summary) (*see* **2001a:90005**)
**Kalitkin, N. N.** (*with* Kuz'mina, L. V.) Approximation and extrapolation of tabulated functions. (Russian)
**Kaplan, A. A.** (*with* Tichatschke, R.) Stable solution of variational inequalities with composed monotone operators. (English summary) **2001a:49011**
**Khan, Akhtar Ali** *see* **Baasansuren, J., 2001e:49015**; **Giannessi, Franco, 2001f:49019** *and* **Kalashnikov, Vyacheslav Vital'evich, (2001a:90005)**
**Kochikov, I. V.** *see* **Yagola, A. G. et al., 2001j:81276**
**Kress, Rainer** (*with* Tran, Thanh) Inverse scattering for a locally perturbed half-plane. (English summary) **2001k:78037**
**Kulkarni, S. H.** (*with* Nair, M. Thamban) A characterization of closed range operators. (English summary) **2001d:47009**
**Kuramshina, G. M.** *see* **Yagola, A. G. et al., 2001j:81276**
**Kuz'mina, L. V.** *see* **Kalitkin, N. N.**
**Laumen, M.** A Kantorovich theorem for the structured PSB update in Hilbert space. (English summary) **2001e:49072**
**Lee, Byung Soo** *see* **Yin, Qiang et al., 2001i:47112**
**Lee, Gue Myung** *see* **Nguyễn Đông Yên, 2001m:49009**
**Lehdili, N.** (*with* Ould Ahmed Salem, Cheikh) Proximal methods: decomposition and selection. (English summary) **2001a:90080**
**Lemaire, Bernard** (*with* Ould Ahmed Salem, Cheikh) From fixed point regularization to constraint decomposition in variational inequalities. (English summary) **2001b:49014**
**Leonov, A. S.** (*with* Yagola, A. G.) Optimal methods for solving ill-posed problems with source-representable solutions. (Russian. English and Russian summaries) **2001k:65090**
**Liu, Zeqing** *see* **Yin, Qiang et al., 2001i:47112**
**Maeght, Jean** (*with* Noll, Dominikus; Boyd, Stephen) Dynamic emission tomography—regularization and inversion. (English summary) **2001f:92013**
**Malinov, V. G.** A regularized two-step projection method for minimization problems with constraints. (Russian. Russian summary) **2001b:90095**
**Martínez, José Mario** *see* **Andreani, Roberto et al., 2001f:90053**
**Menikhes, L. D.** (*with* Tanana, V. P.) Finite approximation in the Lavrent'ev method. (Russian. English and Russian summaries) **2001c:47018**
**Morigi, Serena** *see* **Calvetti, Daniela et al., 2001h:65048**
**Muniz, W. B.** (*with* Ramos, F. M.; de Campos Velho, H. F.) Entropy- and Tikhonov-based regularization techniques applied to the backwards heat equation. (English summary) **2001d:80010**
**Nair, M. Thamban** *see* **Kulkarni, S. H., 2001d:47009**
**Nguyễn Đông Yên** (*with* Lee, Gue Myung) Some remarks on the elliptic regularization method. (English summary) **2001m:49009**
**Noll, Dominikus** *see* **Maeght, Jean et al., 2001f:92013** *and* **Hermann, Ulrike, 2001i:49070**
**Ould Ahmed Salem, Cheikh** *see* **Lehdili, N., 2001a:90080** *and* **Lemaire, Bernard, 2001b:49014**
**Penot, Jean-Paul** Some links between approximation, nonsmooth analysis, penalization and regularization. (English summary) **2001b:49023**
**Pentin, Yu. A.** *see* **Yagola, A. G. et al., 2001j:81276**
**Pereverzev, Sergei V.** (*with* Prössdorf, Siegfried) On the characterization of self-regularization properties of a fully discrete projection method for Symm's integral equation. (English summary) **2001j:65198**
**Petunin, Yu. I.** (*with* Savkina, M. Yu.) A new concept of a generalized solution of operator equations in a Banach space. (English summary) **2001j:47010**
**Prössdorf, Siegfried** *see* **Pereverzev, Sergei V., 2001j:65198**
**Ramos, F. M.** *see* **Muniz, W. B. et al., 2001d:80010**

**Ravindran, G.** (*with* Gowda, M. Seetharama) Regularization of $P_0$-functions in box variational inequality problems. (English summary) **2001m:90113**
**Reichel, Lothar** *see* **Calvetti, Daniela et al., 2001h:65048**
**Russo, Alessandro** *see* **Brezzi, Franco, 2001i:65121**
**Ryazantseva, I. P.** On an iterative regularization method for convex minimization problems. (Russian. Russian summary) **2001h:90057**
**Samarskiĭ, Aleksandr Andreevich** (*with* Vabishchevich, P. N.) The regularization principle and the stability of difference schemes. (Russian. English and Russian summaries)
**Santos, Manuel S.** Accuracy of numerical solutions using the Euler equation residuals. (English summary) **2001j:91098**
**Savkina, M. Yu.** *see* **Petunin, Yu. I., 2001j:47010**
**Sgallari, F.** *see* **Calvetti, Daniela et al., 2001h:65048**
**Sivergina, I.** On the input estimation problem for PDE: the regularized solutions and evolutionary numerical algorithms. (English summary) (*see* **2001d:65007**)
**Sizikov, V. S.** Modification of the local regularization method, and the method of suboptimal filtering of the solution of equations of the first kind. (Russian) **2001k:47017**
**Strakhov, A. V.** *see* **Strakhov, V. N., 2001m:86003**
**Strakhov, V. N.** (*with* Strakhov, A. V.) Universal algorithms for the regularization of systems of linear algebraic equations with additive noise in the right-hand side that arise in the solution of problems of gravimetry and magnetometry. (Russian. Russian summary) **2001m:86003**
**Svalter, Benar Fux** *see* **Andreani, Roberto et al., 2001f:90053**
**Tanana, V. P.** *see* **Menikhes, L. D., 2001c:47018**
**Tichatschke, R.** *see* **Kaplan, A. A., 2001a:49011**
**Titarenko, V. N.** (*with* Yagola, A. G.) Application of the GCV method for well-posed and ill-posed problems. (Russian. Russian summary)
**Tran, Thanh** *see* **Kress, Rainer, 2001k:78037**
**Vabishchevich, P. N.** *see* **Samarskiĭ, Aleksandr Andreevich**
**Vasin, V. V.** (*with* Ageev, A. L.) ★ Некорректные задачи с априорной информацией. (Russian. Russian summary) [Ill-posed problems with a priori information] **2001j:65001**
— Regularization and discrete approximation of ill-posed problems in the space of functions of bounded variation. (Russian)
**Verma, Ram U.** *see* **Argyros, Ioannis K.**
**Wang, Ping[4]** (*with* Zheng, Kewang) Determination of conductivity in a heat equation. (English summary) **2001i:35290**
— (*with* Zheng, Kewang) Regularization of Abel's equation of first kind. (English summary) **2001k:45006**
**Wedin, Per-Åke** *see* **Gulliksson, Mårten et al., 2001g:65047**
**Wei, Gai Ran** *see* **Xue, Zhi Qun**
**Wei, Yi Min** *see* **Gulliksson, Mårten et al., 2001g:65047**
**Wincheski, Buzz** *see* **Banks, H. T. et al., 2001e:78022**
**Winfree, William P.** *see* **Banks, H. T. et al., 2001e:78022**
**Xue, Zhi Qun** (*with* Wei, Gai Ran) A remark on iterative approximation of solutions to $m$-accretive operator equations. (Chinese. English and Chinese summaries)
**Yagola, A. G.** (*with* Kochikov, I. V.; Kuramshina, G. M.; Pentin, Yu. A.) ★ Inverse problems of vibrational spectroscopy. **2001j:81276**
— *see also* **Leonov, A. S., 2001k:65090** *and* **Titarenko, V. N.**
**Yamamoto, Masahiro** *see* **Bruckner, Gottfried, 2001c:47017**
**Yan, Gui Feng** (*with* Feng, En Min) A boundary control approximation approach for domain decomposition algorithms. (Chinese. English and Chinese summaries)
**Yin, Qiang** (*with* Liu, Zeqing; Lee, Byung Soo) Iterative solutions of nonlinear equations with $\varphi$-strongly accretive operators. (English summary) **2001i:47112**
**Yu, Li Xin** Convergence of Mann iterative sequences to fixed points of mixed monotone operators. (Chinese. English and Chinese summaries)
**Zhang, Fei Ran** The iterative solutions of a system of non-continuous and non-compact binary operator equations in Banach spaces. (Chinese. English and Chinese summaries)
**Zheng, Kewang** *see* **Wang, Ping[4], 2001i:35290** *and* **2001k:45006**

## 65J22 Inverse problems

**Engl, Heinz W.** (*with* Scherzer, Otmar) Convergence rates results for iterative methods for solving nonlinear ill-posed problems. (English summary) **2001e:65098**
**Groetsch, Charles W.** Regularization and stabilization of inverse problems. (English summary) **2001j:65098**
**Janno, Jaan** (*with* Kiss, E. M.; von Wolfersdorf, Lothar) On Tikhonov regularization for identifying memory kernels in heat conduction and viscoelasticity. (English and German summaries) **2001c:65074**
**Kiss, E. M.** *see* **Janno, Jaan et al., 2001c:65074**
**Panyukov, A. V.** An extremal method for solving a parametric inverse problem for a system of linear functional equations. (Russian) **2001j:65099**
**Scherzer, Otmar** *see* **Engl, Heinz W., 2001e:65098**
**Wang, Lian Tang** A modified method for the linear moment problem. (Chinese. English summary) **2001e:65099**
**von Wolfersdorf, Lothar** *see* **Janno, Jaan et al., 2001c:65074**
**Zhirov, A. L.** Minimax estimates for solutions of operator equations with nonstationary observations. (English summary)

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**Ascher, Uri M.** *see* **Haber, Eldad et al., 2001j:78025**
**Bukhgeim, A. L.** (*with* Dyatlov, Gleb V.) Inverse problems for equations with memory. (English summary) **2001c:35242**
**Dyatlov, Gleb V.** *see* **Bukhgeim, A. L., 2001c:35242**
**Haber, Eldad** (*with* Ascher, Uri M.; Oldenburg, Douglas) On optimization techniques for solving nonlinear inverse problems. (English summary) **2001j:78025**
**Hanke, Martin** (*with* Vogel, Curtis R.) Two-level preconditioners for regularized inverse problems. I. Theory. (English summary) **2001h:65069**
**Kress, Rainer** (*with* Tran, Thanh) Inverse scattering for a locally perturbed half-plane. (English summary) **2001k:78037**
**Oldenburg, Douglas** *see* **Haber, Eldad et al., 2001j:78025**
**Orlovskiĭ, D. G.** *see* **Prilepko, A. I. et al., 2001m:35321**
**Prilepko, A. I.** (*with* Orlovskiĭ, D. G.; Vasin, Igor A.) ★ Methods for solving inverse problems in mathematical physics. (English summary) **2001m:35321**
**Tran, Thanh** *see* **Kress, Rainer, 2001k:78037**
**Vasin, Igor A.** *see* **Prilepko, A. I. et al., 2001m:35321**
**Vogel, Curtis R.** *see* **Hanke, Martin, 2001h:65069**

## 65J99 None of the above, but in this section

### Items with secondary classifications in 65J99

**Tian, You Xian** Iterative algorithms for the fixed point of a generalized quasi-contractive mapping. (Chinese. English and Chinese summaries)

# 65Kxx Mathematical programming, optimization and variational techniques

## 65K05 Mathematical programming algorithms {For theory see 90Cxx.}

**Badea, Lori** (*with* Wang, Jun Ping[1]) An additive Schwarz method for variational inequalities. (English summary) **2001a:65075**
**Chekmasov, M. V.** Application of probability methods to the problem of construction of optimal coverings. (English summary)
**De Pierro, Alvaro R.** (*with* Wei, Musheng) Some new properties of the equality constrained and weighted least squares problem. (English summary) **2001j:65100**
**Jin, Xiao-qing** *see* **Yuan, Jin Yun, 2001f:65075**
**Kanovei, G. V.** (*with* Nefedov, V. N.) On a necessary condition for the positivity of a real polynomial of several variables in the positive orthant. (Russian. Russian summary) **2001c:65075**
**Nefedov, V. N.** *see* **Kanovei, G. V., 2001c:65075**
**Wang, Jun Ping[1]** *see* **Badea, Lori, 2001a:65075**
**Wei, Musheng** *see* **De Pierro, Alvaro R., 2001j:65100**
**Yuan, Jin Yun** (*with* Jin, Xiao-qing) Direct iterative methods for rank deficient generalized least squares problems. (English summary) **2001f:65075**
**Zhu, Detong** Convergence properties of improved secant methods with trust region multiplier. (English summary) **2001b:65068**

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**Al-Baali, M.** (*with* Conforti, D.; Musmanno, Roberto) Computational experiments with scaled initial Hessian approximation for the Broyden family methods. (English summary)
**Al-Khayyal, Faiz A.** (*with* Sherali, Hanif D.) On finitely terminating branch-and-bound algorithms for some global optimization problems. (English summary) **2001m:90072**
**Alvarez, Felipe** Absolute minimizer in convex programming by exponential penalty. (English summary) **2001d:90065**
**Ammar, Hamadi** (*with* Cherruault, Yves) Optimisation of two variables function with linear inequalities constraints: contraction of the feasible region. (English summary)
**Anstreicher, Kurt M.** (*with* Wright, Margaret H.) A note on the augmented Hessian when the reduced Hessian is semidefinite. (English summary) **2001e:90090**
**Antipin, A. S.** Second-order controlled differential gradient methods for solving equilibrium problems. (Russian. Russian summary) **2001a:90056**
**Argyros, Ioannis K.** *see* **Tabatabai, M. A.**
**Armand, Paul** (*with* Gilbert, Jean Charles) A piecewise line-search technique for maintaining the positive definiteness of the matrices in the SQP method. (English summary) **2001m:90143**
**Audet, Charles** (*with* Hansen, Pierre; Jaumard, Brigitte; Savard, Gilles) A branch and cut algorithm for nonconvex quadratically constrained quadratic programming. (English summary) **2001c:90070**
**Auslender, Alfred** (*with* Teboulle, Marc; Ben-Tiba, Sami) A logarithmic-quadratic proximal method for variational inequalities. (English summary) **2001i:90093**
**Bai, Yanqin** (*with* Zhang, Lian Sheng) Descent properties and global convergence for conjugate gradient methods. (English and Chinese summaries) **2001h:90079**
**Bartholomew-Biggs, Michael** (*with* Forbes, Alan) A two-dimensional search used with a nonlinear least-squares solver. (English summary) **2001b:90056**
**Benson, Harold P.** An outcome space branch and bound-outer approximation algorithm for convex multiplicative programming. (English summary) **2001f:90035**
**Ben-Tiba, Sami** *see* **Auslender, Alfred et al., 2001i:90093**
**Bergounioux, Maïtine** (*with* Haddou, M.; Hintermüller, Michael; Kunisch, Karl) A comparison of a Moreau-Yosida-based active set strategy and interior point methods for constrained optimal control problems. (English summary) **2001h:49050**
**Biegler, Lorenz T.** Efficient solution of dynamic optimization and NMPC problems. (English summary) **2001b:90147**
— *see also* **Wächter, Andreas, 2001f:90071**
**Birge, John R.** (*with* Qi, Liqun; Wei, Zeng Xin) A variant of the Topkis-Veinott method for solving inequality constrained optimization problems. (English summary) **2001b:90139**
**Birgin, Ernesto G.** (*with* Martínez, José Mario) A spectral conjugate gradient method for unconstrained optimization. (English summary) **2001m:90102**
**Bouaricha, Ali** (*with* Schnabel, Robert B.) Tensor methods for large, sparse nonlinear least squares problems. (English summary) **2001h:65055**
**Branch, Mary Ann** (*with* Coleman, Thomas F.; Li, Yuying) A subspace, interior, and conjugate gradient method for large-scale bound-constrained minimization problems. (English summary) **2001d:90090**
**Bregman, Lev M.** (*with* Censor, Yair; Reich, Simeon) Dykstra's algorithm as the nonlinear extension of Bregman's optimization method. (English summary) **2001e:90054**
**Calvin, James M.** (*with* Žilinskas, Antanas) One-dimensional P-algorithm with convergence rate $O(n^{-3+\delta})$ for smooth functions. (English summary) **2001j:90053**
**Casado, L. G.** (*with* García-Fernández, I.; Csendes, Tibor) A new multisection technique in interval methods for global optimization. (English summary) **2001k:90076**

**Censor, Yair** *see* **Bregman, Lev M. et al., 2001e:90054**
**Chen, Hua Fu** A gradient projection method for a general max-min problem. (Chinese. English and Chinese summaries)
**Chen, Jie[1]** (*with* Zhang, Juan; Hou, Chao Zhen) Analysis and improvement of an algorithm for constrained nonlinear control via ellipsoidal techniques. (Chinese. English and Chinese summaries)
**Chen, Lan Ping** Global convergence of the preconvex part of a non-quasi-Newton family with a class of inexact linesearches. (Chinese. English and Chinese summaries)
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# 65Lxx Ordinary differential equations

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## 65L06 Multistep, Runge-Kutta and extrapolation methods

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## 65L07 Numerical investigation of stability of solutions

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**Mohanty, R. K.** A fourth-order finite difference method for the general one-dimensional nonlinear biharmonic problems of first kind. (English summary) **2001d:65098**
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**Jódar, L. S.** (*with* Marletta, Marco) Solving ODEs arising from non-selfadjoint Hamiltonian eigenproblems. (English summary) **2001m:65091**
**Marletta, Marco** *see* **Brown, B. Malcolm et al., 2001g:34127** *and* **Jódar, L. S., 2001m:65091**
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## 65L20 Stability and convergence of numerical methods

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**Ashino, R.** (*with* Nagase, Michihiro; Vaillancourt, R.) Behind and beyond the MATLAB ODE suite. (English summary) **2001b:65080**
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**Xu, Yang[2]** *see* **Zhao, Jing Jun, 2001i:65086**
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**Jackiewicz, Zdzisław** Step-control stability of diagonally implicit multistage integration methods. (English summary) **2001k:65110**
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**Kirlinger, Gabriela** *see* **Eder, Alexander, 2001k:65109**
**Kværnø, Anne** Stability of multirate Runge-Kutta schemes. (English summary) (*see* **2001c:34002**)
**Kwon, O. B.** (*with* Pimenov, V. G.) Implicit methods of Runge-Kutta type for functional-differential equations. (Russian. English and Russian summaries) **2001f:65084**
**Li, Qing-yang** *see* **Cao, Yang[2], 2001a:65095**
**Li, Shou Fu** Stability and $B$-convergence properties of multistep Runge-Kutta methods. (English summary) **2001a:65084**
— *see also* **Xiao, Ai Guo et al., 2001g:65083** *and* **2001j:65112**
**Liao, Xiao Xin** *see* **Zhang, Cheng Jian et al.**
**Liu, De Gui** *see* **Chen, Li Rong, 2001j:65104**
**Lu, Wan Jin** Stability analysis of long time numerical computation for an ordinary differential equation. (Chinese. English and Chinese summaries)
**Luo, Zhang-hua** *see* **Zhao, Shuang Suo et al., 2001f:65080**
**Mackenzie, John A.** *see* **Beckett, G., 2001i:65080**
**Mancuso, Massimo** (*with* Ubertini, Francesco) Collocation methods with controllable dissipation for linear dynamics. (English summary)
**Marfurt, Marco** (*with* Urbani, Anna Melania) A class of accelerators for BDF methods. (English summary) **2001b:65072**
**Maset, S.** Stability of Runge-Kutta methods for linear delay differential equations. (English summary) **2001j:65110**
**Miller, J. J. H.** (*with* O'Riordan, E.; Shishkin, Grigorii I.; Wang, Song) A parameter-uniform Schwarz method for a singularly perturbed reaction-diffusion problem with an interior layer. (English summary) **2001m:65096**
— *see also* **Farrell, P. A. et al., 2001c:65003**
**Montijano, J. I.** *see* **Calvo Pinilla, M. et al., 2001k:65108**
**Muccino, Julia C.** *see* **Gray, William G., 2001d:65089**
**Nakashima, Masaharu** Stability of variable coefficients Runge-Kutta methods. (English summary) (*see* **2001d:65007**)
**Olsson, Hans** (*with* Söderlind, Gustaf) The approximate Runge-Kutta computational process. (English summary) **2001f:65085**
**O'Riordan, E.** *see* **Farrell, P. A. et al., 2001c:65003** *and* **Miller, J. J. H. et al., 2001m:65096**
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**Ramadan, Z.** On the numerical solution of a system of third order ordinary differential equations by spline functions. (English summary) **2001i:65074**
— *see also* **Fawzy, Th. et al., 2001i:65075**
**Rokhlin, Vladimir V.** *see* **Dutt, Alok et al., 2001e:65104**
**Salama, A. A.** Higher order and optimal schemes for stiff initial-value problems. (English summary) **2001m:65083**
**Schatzman, Michelle V.** *see* **Bastien, Jérôme, 2001f:65102**
**Scherer, Rudolf** *see* **Görtz, Peter, 2001c:65082**
**Shaidurov, Vladimir V.** *see* **Karepova, E. D., 2001e:65117**
**Sheng, Qin** *see* **Khaliq, A. Q. M. et al., 2001b:65095**
**Shinohara, Yoshitane** (*with* Imai, Hitoshi; Takeuchi, Toshiki; Kagenishi, Yoshiteru) Existence and uniqueness of quasiperiodic solutions to Duffing equations and verification of the accuracy of approximate solutions. (*see* **2001f:65006**)
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**Söderlind, Gustaf** *see* **Olsson, Hans, 2001f:65085**
**Solov'ev, A. G.** *see* **Zhidkov, E. P.**
**Sulyagina, L. A.** Stability of one-step methods for numerical integration that use derivatives. (Russian. Russian summary)
**Takeuchi, Toshiki** *see* **Shinohara, Yoshitane et al., (2001f:65006)**
**Tamari, Fumikazu** (*with* Furuki, Ryuichi; Yanagiwara, Hiroki) On the stability of a new multistep method. (English summary)
**Ubertini, Francesco** *see* **Mancuso, Massimo**
**Urbani, Anna Melania** *see* **Marfurt, Marco, 2001b:65072**
**Van Daele, M.** (*with* Van Hecke, T.; Vanden Berghe, Guido; De Meyer, H.) Deferred correction with mono-implicit Runge-Kutta methods for first-order IVPs. (English summary) **2001b:65078**
**Vanden Berghe, Guido** *see* **Van Daele, M. et al., 2001b:65078**
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**Van Vleck, Erik S.** Numerical shadowing using componentwise bounds and a sharper fixed point result. (English summary) **2001g:65095**
**Wang, Song** *see* **Miller, J. J. H. et al., 2001m:65096**
**Xiao, Ai Guo** (*with* Fu, Hongyuan; Li, Shou Fu; Chen, Guang Nan) Regularity properties of general linear methods for initial value problems of ordinary differential equations. (English summary) **2001g:65083**
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**Yanagiwara, Hiroki** *see* **Tamari, Fumikazu et al.**
**Zadorin, A. I.** A difference scheme for a problem with a power boundary layer. (Russian. English summary) (*see* **2001j:00023**)
**Zhang, Cheng Jian** (*with* Liao, Xiao Xin; Cheng, Wei[2]) $GP_k$-stability of multistep Runge-Kutta methods for a class of multidelay systems. (English and Chinese summaries)

— (*with* Gao, Jian[3]) The numerical stability of implicit Euler methods for Volterra integral-delay equations. (Chinese. English and Chinese summaries)
— (*with* Gan, Si Qing) The analysis of numerical convergence on systems of multidelay-differential equations. (Chinese. English summary) **2001e:65134**
**Zhang, Guo Feng[1]** Stability of implicit one-block methods for delay differential equations. (English summary) **2001j:65191**
— *see also* **Zhao, Shuang Suo et al., 2001f:65080**
**Zhao, Shuang Suo** (*with* Luo, Zhang-hua; Zhang, Guo Feng[1]) Two iteration methods for solving linear algebraic systems with low order matrix $A$ and high order matrix $B$: $Y = (A \otimes B)Y + \Phi$. (English summary) **2001f:65080**
**Zhidkov, E. P.** (*with* Solov'ev, A. G.) ★Применение двухпараметрической экстраполяции при решении спектральной краевой задачи на полуоси. (Russian. English and Russian summaries) [Application of two-parameter extrapolation for the solution of a spectral boundary value problem on the half-axis]
**Zhu, Fang Sheng** A class of Runge-Kutta methods with $L$-stability and $B$-stability. (Chinese. English and Chinese summaries)

## 65L50 Mesh generation and refinement

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**Boglaev, Igor** Domain decomposition in boundary layers for singularly perturbed problems. (English summary) **2001e:65148**
**Brayanov, I. A.** (*with* Volkov, Lyuben G.) On the convergence, uniform with respect to a small parameter, of the Samarskiĭ monotone scheme and its modification for a convection-diffusion equation with a concentrated source. (Russian. Russian summary) **2001h:65081**
**Čiegis, Raimondas** (*with* Suboč, Olga; Čiegis, Remigijus) Adaptive integration of stiff ODE. (English and Lithuanian summaries) **2001m:65098**
**Čiegis, Remigijus** *see* **Čiegis, Raimondas et al., 2001m:65098**
**Linß, Torsten** (*with* Roos, Hans-Görg; Vulanović, Relja) Uniform pointwise convergence on Shishkin-type meshes for quasi-linear convection-diffusion problems. (English summary) **2001h:65082**
**Nikolaev, E. S.** A method for solving boundary value problems for systems of linear ordinary differential equations on adaptively refined grids. (Russian. Russian summary) **2001i:65084**
**Roos, Hans-Görg** *see* **Linß, Torsten et al., 2001h:65082**
**Suboč, Olga** *see* **Čiegis, Raimondas et al., 2001m:65098**
**Volkov, Lyuben G.** *see* **Brayanov, I. A., 2001h:65081**
**Vulanović, Relja** *see* **Linß, Torsten et al., 2001h:65082**

## 65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods

**Adjerid, Slimane** (*with* Aiffa, Mohammed; Flaherty, Joseph E.) Computational methods for singularly perturbed systems. (English summary) **2001c:65097**
**Aiffa, Mohammed** *see* **Adjerid, Slimane et al., 2001c:65097**
**Boryczko, Krzysztof** *see* **Stiller, Jörg[2] et al., (2001m:65006)**
**Deeba, E. Y.** (*with* Xie, Shishen) The asymptotic expansion and numerical verification of van der Pol's equation. (English summary)
**Del Buono, N.** (*with* Diele, F.; Lopez, Luciano; Mastroserio, C.; Peluso, R.; Politi, Tiziano; Sgura, I.) Conservative methods for ordinary differential equations on quadratic groups. (English and Italian summaries) (*see* **2001i:65003**)
**Diele, F.** *see* **Del Buono, N. et al., (2001i:65003)**
**Flaherty, Joseph E.** *see* **Adjerid, Slimane et al., 2001c:65097**
**Guo, Ben-Yu** Jacobi approximations in certain Hilbert spaces and their applications to singular differential equations. (English summary) **2001b:65082**
**Ishiwata, Emiko** On the attainable order of collocation methods for the neutral functional-differential equations with proportional delays. (English summary) **2001g:65093**
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**Kalra, Manjeet S.** *see* **Singh, Krishna M.**
**Karepova, E. D.** (*with* Shaidurov, Vladimir V.) Fitted scheme of the finite element method for a convection-diffusion equation. (English summary) **2001e:65117**
**Konate, Dialla** Uniformly convergent schemes for singularly perturbed differential equations based on collocation methods. (English summary) **2001h:65086**
**Lopez, Luciano** *see* **Del Buono, N. et al., (2001i:65003)**
**Luo, Albert C. J.** Chaotic motions in the resonant separatrix band of a parametrically excited pendulum. (English summary)
**Mancuso, Massimo** (*with* Ubertini, Francesco) Collocation methods with controllable dissipation for linear dynamics. (English summary)
**Mastroserio, C.** *see* **Del Buono, N. et al., (2001i:65003)**
**Messina, Eleonora** (*with* Paternoster, Beatrice) Efficient methods for special second-order ODEs. (English and Italian summaries) (*see* **2001i:65003**)
**Micula, Gheorghe** (*with* Revnic, A.) An implicit numerical spline method for systems for ODEs. (English summary) **2001h:65087**
**Muroya, Yoshiaki** *see* **Takama, Norio et al., 2001g:65094**
**Mustăţa, Costică** The approximation by spline functions of the solution of a polylocal problem for a differential equation of order $p$. (English summary) (*see* **2001k:00021a**)
**Nagel, Wolfgang E.** *see* **Stiller, Jörg[2] et al., (2001m:65006)**
**Ng, Michael K.** Fast iterative methods for symmetric sinc-Galerkin systems. (English summary) **2001b:65083**
**Paternoster, Beatrice** *see* **Messina, Eleonora, (2001i:65003)**
**Peluso, R.** *see* **Del Buono, N. et al., (2001i:65003)**
**Politi, Tiziano** *see* **Del Buono, N. et al., (2001i:65003)**
**Revnic, A.** *see* **Micula, Gheorghe, 2001h:65087**
**Schmidt, Alfred** (*with* Siebert, Kunibert G.) A posteriori estimators for the $h$-$p$ version of the finite element method in 1D. (English summary) **2001i:65087**
**Sgura, I.** *see* **Del Buono, N. et al., (2001i:65003)**
**Shaidurov, Vladimir V.** *see* **Karepova, E. D., 2001e:65117**
**Siebert, Kunibert G.** *see* **Schmidt, Alfred, 2001i:65087**
**Singh, Krishna M.** (*with* Kalra, Manjeet S.) Least-squares finite element schemes in the time domain. (English summary)
**Smolinski, P.** *see* **Wu, Yi-Sheng**
**Stiller, Jörg[2]** (*with* Boryczko, Krzysztof; Nagel, Wolfgang E.) A new approach for parallel multigrid adaption. (English summary) (*see* **2001m:65006**)
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**Ubertini, Francesco** *see* **Mancuso, Massimo**
**Wu, Yi-Sheng** (*with* Smolinski, P.) A multi-time step integration algorithm for structural dynamics based on the modified trapezoidal rule. (English summary)
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**Cheng, Xiao Liang** A discontinuous quadratic finite element method for one-dimensional diffusion problems. (English summary) **2001d:65128**
**Coleman, John Patrick[1]** (*with* Duxbury, Suzanne C.) Mixed collocation methods for $y'' = f(x, y)$. (English summary) **2001j:65119**
**Criscuolo, Giuliana** *see* **Capobianco, M. R. et al., 2001i:65138**
**Duxbury, Suzanne C.** *see* **Coleman, John Patrick[1], 2001j:65119**
**Dyksen, Wayne R.** (*with* Lynch, Robert E.) A new decoupling technique for the Hermite cubic collocation equations arising from boundary value problems. (English summary) **2001k:65118**
**Günther, Michael M.** Semidiscretization may act like a deregularization. (English summary) (*see* **2001h:00026**)
**Junghanns, Peter** *see* **Capobianco, M. R. et al., 2001i:65138**
**Kosowski, Przemysław** The relative error in the Pruess method for Sturm-Liouville problems. (English summary) **2001c:65094**
**Li, Jichun** Convergence analysis of finite element methods for singularly perturbed problems. (English summary) **2001f:65087**
**Luther, U.** *see* **Capobianco, M. R. et al., 2001i:65138**
**Lynch, Robert E.** *see* **Dyksen, Wayne R., 2001k:65118**
**Nabhan, Maha** (*with* Wade, Bruce A.) The weighted continuous Galerkin scheme for ordinary differential equations. (English summary) **2001g:65088**
**Nikolaev, E. S.** A method for solving boundary value problems for systems of linear ordinary differential equations on adaptively refined grids. (Russian. Russian summary) **2001i:65084**
**Parter, Seymour V.** On the Legendre-Gauss-Lobatto points and weights. **2001f:65143**
**Schötzau, Dominik** (*with* Schwab, Christoph) An $hp$ a priori error analysis of the DG time-stepping method for initial value problems. (English summary) **2001k:65126**
**Schwab, Christoph** *see* **Wihler, T. P., 2001d:65123** *and* **Schötzau, Dominik, 2001k:65126**
**Taigbenu, Akpofure E.** Solutions of the 1-D Helmholtz equation by two Green element models. (English summary) **2001c:65187**
**Wade, Bruce A.** *see* **Nabhan, Maha, 2001g:65088**
**Wihler, T. P.** (*with* Schwab, Christoph) Robust exponential convergence of the $hp$ discontinuous Galerkin FEM for convection-diffusion problems in one space dimension. (English summary) **2001d:65123**

## 65L70 Error bounds

**Adeniyi, R. B.** Optimality of an error estimate of a one-step numerical integration method for certain initial value problems. (English summary) **2001h:65088**
**Faltinsen, S.** Backward error analysis for Lie-group methods. (English summary) **2001j:65120**
**Makazaga, J.** *see* **Murua, Ander, 2001k:65125**
**Murua, Ander** (*with* Makazaga, J.) Cheap one-step global error estimation for ODEs. (English summary) **2001k:65125**
**Schötzau, Dominik** (*with* Schwab, Christoph) An $hp$ a priori error analysis of the DG time-stepping method for initial value problems. (English summary) **2001k:65126**
**Schwab, Christoph** *see* **Schötzau, Dominik, 2001k:65126**
**Van Vleck, Erik S.** Numerical shadowing using componentwise bounds and a sharper fixed point result. (English summary) **2001g:65095**
**Zolotareva, N. D.** A sharp error estimate for the numerical solution of the Cauchy problem for a second-order nonlinear differential equation. (Russian. Russian summary) **2001b:65084**

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**Andrew, Alan L.** Quadrature errors in finite element eigenvalue computations. (English summary)
**Blanes, Sergio** (*with* Casas, F.; Ros, José) Improved high order integrators based on the Magnus expansion. (English summary) **2001f:65078**
**Bond, R. A. B.** (*with* Mika, Janusz R.; Martincigh, B. S.; Simoyi, Reuben H.) Practical error analysis of the quasi-steady-state approximation. (English summary) **2001i:65081**
**Brin, Leon Q.** Numerical testing of the stability of viscous shock waves. (English summary) **2001j:65118**
**Casas, F.** *see* **Blanes, Sergio et al., 2001f:65078**
**Chen, Guang Nan** *see* **Huang, Cheng Ming[2] et al., 2001m:65099**
**Fu, Hongyuan** *see* **Huang, Cheng Ming[2] et al., 2001m:65099**
**González-Pinto, S.** (*with* Montijano, J. I.; Pérez-Rodríguez, S.) On the starting algorithms for fully implicit Runge-Kutta methods. (English summary) **2001j:65105**
**Harmsen, Betty Jean** Using remainder polynomials to solve discrete Sturm-Liouville problems. (English summary) **2001j:39011**
**Huang, Cheng Ming[2]** (*with* Chen, Guang Nan; Li, Shou Fu; Fu, Hongyuan) $D$-convergence of general linear methods for stiff delay differential equations. (English summary) **2001m:65099**

**Jackson, Kenneth R.** *see* **Nedialkov, Nedialko S., 2001b:65055**
**Kulikov, G. Yu.** A local-global version of a stepsize control for Runge-Kutta methods. (English summary) **2001f:65083**
**Li, Jichun** Convergence analysis of finite element methods for singularly perturbed problems. (English summary) **2001f:65087**
**Li, Shou Fu** *see* **Huang, Cheng Ming[2] et al., 2001m:65099**
**Martincigh, B. S.** *see* **Bond, R. A. B. et al., 2001i:65081**
**Mika, Janusz R.** *see* **Bond, R. A. B. et al., 2001i:65081**
**Montijano, J. I.** *see* **González-Pinto, S. et al., 2001j:65105**
**Natesan, S.** (*with* Ramanujam, N.) "Booster method" for singularly perturbed Robin problems. I. (English summary) **2001k:65121**
**Nedialkov, Nedialko S.** (*with* Jackson, Kenneth R.) An interval Hermite-Obreschkoff method for computing rigorous bounds on the solution of an initial value problem for an ordinary differential equation. (English summary) **2001b:65055**
**Pérez-Rodríguez, S.** *see* **González-Pinto, S. et al., 2001j:65105**
**Ramanujam, N.** *see* **Natesan, S., 2001k:65121**
**Ros, José** *see* **Blanes, Sergio et al., 2001f:65078**
**Schmidt, Alfred** (*with* Siebert, Kunibert G.) A posteriori estimators for the $h$-$p$ version of the finite element method in 1D. (English summary) **2001i:65087**
**Siebert, Kunibert G.** *see* **Schmidt, Alfred, 2001i:65087**
**Simoyi, Reuben H.** *see* **Bond, R. A. B. et al., 2001i:65081**
**Tracogna, S.** (*with* Welfert, B.) Two-step Runge-Kutta: theory and practice. (English summary) **2001m:65092**
**Welfert, B.** *see* **Tracogna, S., 2001m:65092**

## 65L80 Methods for differential-algebraic equations

**Arévalo, Carmen** (*with* Führer, Claus; Söderlind, Gustaf) Regular and singular $\beta$-blocking of difference corrected multistep methods for nonstiff index-2 DAEs. (English summary) **2001k:65127**
**Barton, Paul I.** *see* **Martinson, Wade S., 2001h:65090**
**Bauer, Irene** (*with* Bock, Hans Georg; Körkel, Stefan; Schlöder, Johannes P.) Numerical methods for optimum experimental design in DAE systems. (English summary) (*see* **2001c:49003**)
**Bernard, Pierre-Eric** *see* **Coulaud, Olivier, 2001k:65129**
**Bock, Hans Georg** *see* **Bauer, Irene et al., (2001c:49003)**
**Boyarintsev, Yu. E.** A remark on difference schemes that approximate ordinary differential-algebraic systems of equations. (Russian. Russian summary) (*see* **2001d:35002**)
**Cao, Yang[2]** (*with* Li, Qing-yang) Multistep discretization of index 3 DAEs. (English summary) **2001a:65095**
**Cash, J. R.** Modified extended backward differentiation formulae for the numerical solution of stiff initial value problems in ODEs and DAEs. (English summary) **2001k:65128**
**Coulaud, Olivier** (*with* Bernard, Pierre-Eric) Parallel constrained molecular dynamics. (English summary) **2001k:65129**
**Führer, Claus** *see* **Arévalo, Carmen et al., 2001k:65127**
**Gerstlauer, A.** *see* **Köhler, Reto et al.**
**Günther, Michael M.** (*with* Wagner, Yvonne) Index concepts for linear mixed systems of differential-algebraic and hyperbolic-type equations. (English summary) **2001m:65101**
**Jiang, Yao-Lin** (*with* Wing, Omar) Monotone waveform relaxation for systems of nonlinear differential-algebraic equations. (English summary) **2001i:65088**
— (*with* Wing, Omar) A note on the spectra and pseudospectra of waveform relaxation operators for linear differential-algebraic equations. (English summary) **2001h:65089**
**Köhler, Reto** (*with* Gerstlauer, A.; Zeitz, M.) Symbolic preprocessing for simulation of PDE models of chemical processes. (English summary)
**Körkel, Stefan** *see* **Bauer, Irene et al., (2001c:49003)**
**Li, Qing-yang** *see* **Cao, Yang[2], 2001a:65095**
**Li, Shengtai** (*with* Petzold, Linda R.) Software and algorithms for sensitivity analysis of large-scale differential algebraic systems. (English summary) **2001k:65130**
**Martinson, Wade S.** (*with* Barton, Paul I.) A differentiation index for partial differential-algebraic equations. (English summary) **2001h:65090**
**Petzold, Linda R.** *see* **Li, Shengtai, 2001k:65130**
**Schlöder, Johannes P.** *see* **Bauer, Irene et al., (2001c:49003)**
**Söderlind, Gustaf** *see* **Arévalo, Carmen et al., 2001k:65127**
**Wagner, Yvonne** *see* **Günther, Michael M., 2001m:65101**
**Wang, Feng-Sheng** A modified collocation method for solving differential-algebraic equations. (English summary) **2001i:65089**
**Wing, Omar** *see* **Jiang, Yao-Lin, 2001h:65089** *and* **2001i:65088**
**Zeitz, M.** *see* **Köhler, Reto et al.**

Items with secondary classifications in 65L80

**Ahmad, Idrees** (*with* Berzins, Martin) MOL solvers for hyperbolic PDEs with source terms. (English summary)
**Arnold, Martin** (*with* Simeon, B.) Pantograph and catenary dynamics: a benchmark problem and its numerical solution. (English summary)
**Berzins, Martin** *see* **Ahmad, Idrees**
**Biehn, Neil** (*with* Campbell, Stephen L.; Jay, Laurent O.; Westbrook, Tracey) Some comments on DAE theory for IRK methods and trajectory optimization. (English summary) (*see* **2001c:49003**)
**Blatt, Markus** (*with* Schittkowski, K.) Optimal control of one-dimensional partial differential algebraic equations with applications. (English summary)
**Campbell, Stephen L.** *see* **Biehn, Neil et al., (2001c:49003)**
**García-Celayeta, Berta** *see* **Higueras Sanz, Immaculada, 2001c:65083**
**Gerdts, Matthias** Numerische Methoden optimaler Steuerprozesse mit differential-algebraischen Gleichungssytemen höheren Indexes und ihre Anwendungen in der Kraftfahrzeugsimulation und Mechanik. [Numerical methods for optimal control processes with systems of differential-algebraic equations of higher index and their applications in automobile simulation and mechanics] **2001m:49057**
**Grandine, Thomas A.** Applications of contouring. (English summary) **2001d:65075**
**Higueras Sanz, Immaculada** (*with* García-Celayeta, Berta) Runge-Kutta methods for DAEs. A new approach. (English summary) **2001c:65083**
**(Hyman, James M.)** *see* **Method of lines**
**Jay, Laurent O.** *see* **Biehn, Neil et al., (2001c:49003)**
**Petzold, Linda R.** *see* **Method of lines** *and* **Serban, Radu**
**Rabier, Patrick J.** (*with* Rheinboldt, Werner C.) ★ Nonholonomic motion of rigid mechanical systems from a DAE viewpoint. (English summary) **2001e:70013**
**Rheinboldt, Werner C.** *see* **Rabier, Patrick J., 2001e:70013**
**(Schiesser, W. E.)** *see* **Method of lines**
**Schittkowski, K.** *see* **Blatt, Markus**
**Serban, Radu** (*with* Petzold, Linda R.) COOPT—a software package for optimal control of large-scale differential-algebraic equation systems. (English summary)
**Simeon, B.** *see* **Arnold, Martin**
**Song, Yongzhong** Solvability of higher index time-varying linear differential-algebraic equations. (English summary) **2001k:34009**
**(Taha, T. R.)** *see* **Method of lines**
**Tang, Tao** (*with* Xue, Wei Min[1]; Zhang, Ping-wen) Analysis of moving mesh methods based on geometrical variables. (English summary) **2001j:65139**
**Westbrook, Tracey** *see* **Biehn, Neil et al., (2001c:49003)**
**Xue, Wei Min[1]** *see* **Tang, Tao et al., 2001j:65139**
**Zhang, Ping-wen** *see* **Tang, Tao et al., 2001j:65139**

Items listed otherwise than by author

**Athens, GA** ★ Method of lines.
**Conference:**
**Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory** ★ Method of lines.
**Method of lines** ★ Method of lines.

## 65L99 None of the above, but in this section

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**Errata:**
**"Compact implicit MacCormack-type schemes with high accuracy"** Erratum: "Compact implicit MacCormack-type schemes with high accuracy" [J. Comput. Phys. **158** (2000), no. 1, 51–70; MR 2000i:65122] by R. Hixon and E. Turkel.

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## 65M20 Method of lines

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## 65M25 Method of characteristics

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## 65M30 Improperly posed problems

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## 65M50 Mesh generation and refinement

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## 65M55 Multigrid methods; domain decomposition

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## 65N12 Stability and convergence of numerical methods

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## 65N40 Method of lines

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## 65N45 Method of contraction of the boundary

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## 65N55 Multigrid methods; domain decomposition

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## 65N99 None of the above, but in this section

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## 65P40 Nonlinear stabilities

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**Xiao, Ai Guo** Dissipativity of general linear methods for dissipative dynamic systems in Hilbert spaces. (Chinese. English summary)
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**Yu, Chi-Jer** (*with* Lee, Jong-Eao) An algorithm to approach invariant curves. (English summary) **2001m:37177**

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**Stewart, David E.** Towards numerically estimating Hausdorff dimensions. (English summary) **2001k:65196**

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**Bielecki, Andrzej** Topological conjugacy of gradient cascades and learning process of a nonlinear neuron. (English and Polish summaries) **2001m:37033**
**Chen, Li Jun** (*with* Chen, Shi Fu; Pan, Jin Gui; Yu, Hong Zhen) The method and theorem of an iterated function system in template match applications. (Chinese. English and Chinese summaries)
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**Kühn, Wolfgang** Towards an optimal control of the wrapping effect. (English summary) **2001b:65056**
**Nakamura, T.** *see* **Tanaka, R. et al., 2001a:76104**
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**Tanaka, R.** (*with* Nakamura, T.; Yabe, Takashi) Constructing exactly conservative scheme in a non-conservative form. (English summary) **2001a:76104**
**Yabe, Takashi** *see* **Tanaka, R. et al., 2001a:76104**
**Yu, Hong Zhen** *see* **Chen, Li Jun et al.**

## 65Q05 Difference and functional equations, recurrence relations

**Akça, Haydar** *see* **Ashyralyev, Allaberen et al., 2001k:65197**
**Ashyralyev, Allaberen** (*with* Akça, Haydar; Guray, U.) Second order accuracy difference scheme for approximate solutions of delay differential equations. (English summary) **2001k:65197**
**Galvanetto, Ugo** Numerical computation of Lyapunov exponents in discontinuous maps implicitly defined. (English summary) **2001d:65170**
**Guray, U.** *see* **Ashyralyev, Allaberen et al., 2001k:65197**
**Liu, Shu Tang[2]** (*with* Liu, Yong Qing) Oscillation theorems for second-order nonlinear partial difference equations. (English summary)
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**Robbé, M.** (*with* Sadkane, M.) Discrete-time Lyapunov stability of large matrices. (English summary) **2001c:65161**
**Sadkane, M.** *see* **Robbé, M., 2001c:65161**
**Verlinden, Pierre** Stable rational modification of a weight. (English summary) **2001h:65163**
**Zhang, Guo Feng[1]** Stability of implicit one-block methods for delay differential equations. (English summary) **2001j:65191**

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**Akça, Haydar** *see* **Ashyralyev, Allaberen, 2001m:65097**
**Ashyralyev, Allaberen** (*with* Akça, Haydar) Stability estimates of difference schemes for neutral delay differential equations. **2001m:65097**
**Barkatou, M. A.** *see* **Abramov, Sergei A., 2001m:39006**
**Bohner, Martin** (*with* Došlý, Ondřej) Trigonometric transformations of symplectic difference systems. (English summary) **2001g:39006**
**Brezinski, Claude** Difference and differential equations and convergence acceleration algorithms. **2001g:65013**
**Deng, Yu Mei** *see* **Liao, Liu Sheng, 2001m:34147**

**Došlý, Ondřej** *see* **Bohner, Martin, 2001g:39006**
**Fečkan, Michal** A Galerkin-averaging method for weakly nonlinear equations. **2001e:65119**
**van Hoeij, Mark** Rational solutions of linear difference equations. (English summary) (*see* **2001m:68004**)
**Kobza, Jiří** Iterative functional equation $x(x(t)) = f(t)$ with $f(t)$ piecewise linear. (English summary) **2001g:39048**
**Liao, Liu Sheng** (*with* Deng, Yu Mei) A computer algorithm for a sufficient condition of oscillation for a neutral time-delay differential equation. (Chinese. Chinese summary) **2001m:34147**
**Maksa, Gyula** An associative algorithm. (English summary) **2001g:39053**

# 65Rxx Integral equations, integral transforms

## 65R10 Integral transforms

**Airapetyan, Ruben G.** (*with* Ramm, Alexander G.) Numerical inversion of the Laplace transform from the real axis. (English summary) **2001g:65171**
**Borges, Leonardo** (*with* Daripa, Prabir) A parallel version of a fast algorithm for singular integral transforms. (English summary) **2001b:65146**
**Criscuolo, Giuliana** (*with* Giova, R.) On the evaluation of the finite Hilbert transform by a procedure of interpolatory type. (English summary) **2001e:65217**
**Daripa, Prabir** *see* **Borges, Leonardo, 2001b:65146**
**Giova, R.** *see* **Criscuolo, Giuliana, 2001e:65217**
**Iqbal, Mohammad**[1] Spline regularization of numerical inversion of Mellin transform. (English summary) **2001b:65147**
**Ramm, Alexander G.** *see* **Airapetyan, Ruben G., 2001g:65171**
**Tagliani, Aldo** Inverse $z$ transform and moment problem. (English summary) **2001a:65164**
**Wei, Guo Wei**[2] A new algorithm for solving some mechanical problems. (English summary)

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**Barone, Piero** (*with* Ramponi, A.; Sebastiani, G.) On the numerical inversion of the Laplace transform for nuclear magnetic resonance relaxometry. (English summary) **2001m:35312**
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**Brodski, Matvei** *see* **Brandt, Achi et al., 2001a:92016**
**Dinh Thanh Duc** *see* **Vũ Kim Tuấn**
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**Lebedeva, A. V.** (*with* Ryabov, V. M.) Asymptotic properties of quadrature formulas for the numerical inversion of Laplace transform. (English summary) **2001i:65033**
**Liakhovetski, G. V.** (*with* Paris, R. B.) Asymptotic expansions of Laplace-type integrals. III. (English summary)
**Maeght, Jean** (*with* Noll, Dominikus; Boyd, Stephen) Dynamic emission tomography—regularization and inversion. (English summary) **2001f:92013**
**Mair, Bernard A.** A mathematical model incorporating the effects of detector width in 2D PET. (English summary) **2001b:92014**
**Mann, Jordan** *see* **Brandt, Achi et al., 2001a:92016**
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**Noll, Dominikus** *see* **Maeght, Jean et al., 2001f:92013**
**Paris, R. B.** *see* **Kaminski, D.** *and* **Liakhovetski, G. V.**
**Power, Henry** *see* **de Lacerda, L. A. et al.**
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**Rieder, Andreas** (*with* Schuster, Thomas) The approximate inverse in action with an application to computerized tomography. (English summary) **2001a:65072**
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**Sauter, Stefan A.** (*with* Lage, Christian) Transformation of hypersingular integrals and black-box cubature. (English summary) **2001k:65053**
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**Wrobel, Luiz C.** *see* **de Lacerda, L. A. et al.**

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**Alnasr, Modi H.** Modified multilag methods for singularly perturbed Volterra integral equations. (English summary) **2001d:65171**
**Amer, S. M.** (*with* Dardery, S.) On the application of Newton-Kantorovich method to nonlinear singular integral equations. (English summary) **2001j:65192**
**Arena, Vito M.** (*with* Germano, Bruna; Ricci, Paolo Emilio) On a method for computing the eigenvalues of second kind Fredholm operators. (English and Georgian summaries) **2001g:65172**
**Atkinson, Kendall** (*with* Chien, David Da-Kwun) A fast matrix-vector multiplication method for solving the radiosity equation. (English summary) **2001a:65165**
— (*with* Chien, David Da-Kwun; Seol, Jaehoon) Numerical analysis of the radiosity equation using the collocation method. (English summary) **2001j:65193**
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**Babolian, E.** (*with* Biazar, J.) Solution of a system of nonlinear Volterra integral equations of the second kind. (English summary)
**Badalov, F. B.** (*with* Taflakov, N. I.) An approach to the numerical solution of nonlinear weakly singular integro-partial differential equations. (Russian. English and Uzbek summaries)
**Baker, Christopher T. H.** A perspective on the numerical treatment of Volterra equations. (English summary) **2001k:65198**
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**Bedivan, Dana M.** (*with* Fix, George J.) Finite element approximation of Volterra integral equations. (English summary) (*see* **2001a:45003**)
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**Blyth, W. F.** (*with* May, Robert L.; Widyaningsih, P.) The solution of integral equations using Walsh functions and a multigrid approach. (*see* **2001d:00032**)
**Burgstaller, Alfred** A modified collocation method for Volterra delay integrodifferential equations with multiple delays. **2001k:65199**
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**Celorrio, Ricardo** (*with* Sayas, Francisco-Javier) Full collocation methods for some boundary integral equations. (English summary) **2001e:65218**
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**Chen, Han Lin**[1] (*with* Peng, Si Long) A quasi-wavelet algorithm for second kind boundary integral equations. (English summary) **2001e:65219**
**Chernaya, O. A.** A variational principle for the choice of admissible solutions of problems of the reconstruction of star domains that are close to given domains. (Russian. English summary)
**Chien, David Da-Kwun** *see* **Atkinson, Kendall et al., 2001a:65165** *and* **2001j:65193**
**Cibotaru, T.** On approximate solution of non-elliptic singular integral equation systems in Lebesgue spaces. (English summary) **2001i:65139**
**Crisci, Maria Rosaria** (*with* Russo, Elvira; Vecchio, Antonia) Convergence of discrete-time relaxation methods based on Volterra backward differentiation formulas. (English summary) **2001e:65220**
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**Criscuolo, Giuliana** *see* **Capobianco, M. R. et al., 2001i:65138** *and* **(2001i:65003)**
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**Du, Jin Yuan** The collocation methods for singular integral equations with Cauchy kernels. (English summary) **2001k:65201**
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**Fang, Gen Sun** *see* **Ma, Wan**
**Fedotov, A. I.** On convergence of the polynomial collocation method for singular integral equations and periodic pseudodifferential equations. (English summary) **2001k:65202**
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**Garey, L. E.** (*with* Gladwin, C. J.) Best predictor-corrector methods for first order VIDEs with solutions damped at infinity. (English summary) **2001a:65167**
**Germano, Bruna** *see* **Arena, Vito M. et al., 2001g:65172**
**Giebermann, Klaus** A multilevel algorithm for the efficient solution of boundary integral equations. (English summary) (*see* **2001e:00021**)
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**Gallego, Rafael** (*with* Suárez, Javier) Solution of inverse problems by boundary integral equations without residual minimization. (English summary) **2001g:65143**
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## 65S05 Graphical methods

**Borisov, S. N.** ★ Алгоритмы конструирования номограмм. (Russian. Russian summary) [Algorithms for the construction of nomograms]
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**Dohi, Tadashi** (*with* Kaio, Naoto; Osaki, Shunji) A graphical method to repair-cost limit replacement policies with imperfect repair. (English summary) (*see* **2001a:90008**)
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# 65Txx Numerical methods in Fourier analysis

## 65T40 Trigonometric approximation and interpolation

**Cheng, Li Zhi** (*with* Jiang, Zeng Rong) An efficient algorithm for cyclic convolution based on fast-polynomial and fast-$W$ transforms. (English summary) **2001m:65192**
**Healy, Dennis M., Jr.** *see* **Kostelec, Peter J. et al., 2001c:65172**
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**Kostelec, Peter J.** (*with* Maslen, David K.; Healy, Dennis M., Jr.; Rockmore, Daniel N.) Computational harmonic analysis for tensor fields on the two-sphere. (English summary) **2001c:65172**
**Lim, Hyesook** (*with* Piuri, Vincenzo; Swartzlander, Earl E., Jr.) A serial-parallel architecture for two-dimensional discrete cosine and inverse discrete cosine transforms. (English summary)
**Maslen, David K.** *see* **Kostelec, Peter J. et al., 2001c:65172**
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## 65T50 Discrete and fast Fourier transforms

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**Abuelma'atti, M. T.** A new method for Fourier analysis of discontinuous and peaky periodic waveforms. (English summary)
**Auer, Martin** *see* **Karner, Herbert et al., 2001m:65193**
**Averbuch, Amir Z.** (*with* Braverman, Elena; Coifman, Ronald R.; Israeli, Moshe; Sidi, Avram) Efficient computation of oscillatory integrals via adaptive multiscale local Fourier bases. (English summary) **2001e:65234**
**Baszenski, Günter** (*with* Rao, Xuefang; Tasche, Manfred) Numerical stability of fast Fourier transforms. (English summary) **2001k:65207**
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**Keating, Geoffrey** The six-step algorithm for two-dimensional FFTs. (*see* **2001d:00032**)
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**Kyatkin, Alexander B.** (*with* Chirikjian, Gregory S.) Algorithms for fast convolutions on motion groups. (English summary) **2001g:65177**
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**Morante, Silvia** (*with* Rossi, Giancarlo; Salina, Gaetano) A parallel fast Fourier transform. (English summary) **2001h:65168**
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**Otto, Kurt** *see* **Holmgren, Sverker, 2001f:65159** *and* **2001f:65160**
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**Ryabov, V. M.** Approximate computation of the Fourier transform and its inverses. (Russian. Russian summary) **2001f:65161**
**Salina, Gaetano** *see* **Morante, Silvia et al., 2001h:65168**
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**Shokrollahi, M. Amin** *see* **Buhler, Joe et al., 2001k:65208** *and* **(2001d:68025)**
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**Zapata, Jaime L.** (*with* Ritter, Gerhard X.) Fast Fourier transform for hexagonal aggregates. (English summary) **2001c:65176**
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**Barakat, Richard** (*with* Sandler, B. H.) Filon trapezoidal schemes for Hankel transforms of orders zero and one. (English summary) **2001d:65031**
**Bernasconi, Anna** Harmonic analysis and Boolean function complexity. (English summary) **2001c:68058**
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**Spotz, William F.** *see* **Swarztrauber, Paul N., 2001i:33011**
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**Swarztrauber, Paul N.** (*with* Spotz, William F.) Generalized discrete spherical harmonic transforms. (English summary) **2001i:33011**
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## 65T60 Wavelets

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**Bartels, Richard H.** (*with* Samavati, Faramarz F.) Reversing subdivision rules: local linear conditions and observations on inner products. (English summary) **2001i:65144**
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**Chan, Tony F. C.** (*with* Zhou, Hao-Min) Adaptive ENO-wavelet transforms for discontinuous functions.
**Chen, Ke[1]** *see* **Ford, Judith et al.**
**Coifman, Ronald R.** (*with* Sowa, Artur) Combining the calculus of variations and wavelets for image enhancement. (English summary) **2001h:65170**
**Coult, Nicholas** Introduction to discontinuous wavelets. (English summary)
**Cui, Ming Gen** *see* **Wu, Bo Ying**
**Dahlke, Stephan** (*with* Hochmuth, Reinhard; Urban, Karsten) Convergent adaptive wavelet methods for the Stokes problem. (English summary) (*see* **2001d:65006**)
**Dahmen, Wolfgang** (*with* Schneider, Reinhold; Xu, Yuesheng) Nonlinear functionals of wavelet expansions—adaptive reconstruction and fast evaluation. (English summary) **2001g:65180**
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**Duan, Ji Wei** (*with* Lee, Peter Kai-kwong) 4th-order spline wavelets on a bounded interval. (Chinese. English and Chinese summaries) **2001b:65151**
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**Heil, Christopher** *see* **Cabrelli, Carlos et al., 2001g:65179**
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**Iontcheva, Ana** Numerical solution of differential equations using wavelet integrals. (English summary) (*see* **2001d:65007**)
**Jia, Rong Qing** Interpolatory subdivision schemes induced by box splines. (English summary) **2001e:65238**
— (*with* Jiang, Qingtang; Shen, Zuowei) Convergence of cascade algorithms associated with nonhomogeneous refinement equations. (English summary) **2001e:65239**
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**Laeng, Enrico** Wavelets: a survey of the theory and numerical applications. (*see* **2001d:76002**)
**Lee, Peter Kai-kwong** *see* **Duan, Ji Wei, 2001b:65151**
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**Lin, Wei[1]** *see* **Zhang, Yong Hu, (2001j:00025)**
**Liu, Wei-Min** Wavelet transforms with biomedical applications. (English summary) (*see* **2001d:92001**)
**Long, Ruilin** (*with* Mo, Qun) $L^2$-convergence of vector cascade algorithm. (English summary) **2001c:65178**
**Lototskiĭ, R. V.** Application of the wavelet transformation for the compression of graphic images. (Russian. English, Russian and Ukrainian summaries) **2001k:65211**
**Maaß, Peter** (*with* Teschke, Gerd; Willmann, Werner; Wollmann, Günter) Detection and classification of material attributes—a practical application of wavelet analysis. (English summary) **2001m:65194**
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**Møller Nielsen, Ole** High dimensional wavelet smoothing. (English summary) (*see* **2001i:65004**)
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**Niedermeier, A.** (*with* Zimmer, S.) Implementational aspects of prewavelet sparse grid methods.
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**Plonka, Gerlind** (*with* Ron, Amos) A new factorization technique of the matrix mask of univariate refinable functions. (English summary) **2001k:65213**
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**Quak, Ewald G.** *see* **Floater, Michael S. et al., 2001e:65237** *and* **2001i:65145**
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**Tangborn, Andrew** (*with* Zhang, Sara Q.) Wavelet transform adapted to an approximate Kalman filter system. (English summary) (*see* **2001b:65009**)
**Taswell, Carl** Constraint-selected and search-optimized families of Daubechies wavelet filters computable by spectral factorization. (English summary) **2001e:65240**
**Teschke, Gerd** *see* **Maaß, Peter et al., 2001m:65194**
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— *see also* **Hofmann, Norbert et al., 2001m:65019**
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**Computational geometry** ★ Handbook of computational geometry. **2001d:68226**
**Lecture Notes in Mathematics** *see* **Ritter, Klaus, 2001i:65001**

## 65Z05 Applications to physics

Items with secondary classifications in 65Z05

**Casas, M.** *see* **Rigo, A. et al., 2001h:81271**
**Garcias, F.** *see* **Rigo, A. et al., 2001h:81271**
**Plastino, A. R.** *see* **Rigo, A. et al., 2001h:81271**
**Plastino, Angel Luis** *see* **Rigo, A. et al., 2001h:81271**
**Rigo, A.** (*with* Plastino, A. R.; Garcias, F.; Casas, M.; Plastino, Angel Luis) Approximate shape-invariant potentials in quantum mechanics. (English summary) **2001h:81271**

# 68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area.}

## 68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

**(Atallah, Mikhail J.)** *see* **Handbook: Algorithms and theory of computation, 2001f:68001**
**Raynor, William J., Jr.** ★ The international dictionary of artificial intelligence. (English summary)

Items listed otherwise than by author

**Dictionary:**
**Artificial intelligence** *see* **Raynor, William J., Jr.**
**Handbook:**
**Algorithms and theory of computation** ★ Algorithms and theory of computation handbook. **2001f:68001**
**Index:**
**Inform. Process. Lett.** Subject index to Volumes 1–75.

Items with secondary classifications in 68–00

**(Bäck, Thomas)** *see* **Evolutionary computation, 2001f:68116** *and* **2001f:68117**
**(Bezdek, James C.)** *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**
**(Dubois, Didier)** *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**
**(Fogel, David B.)** *see* **Evolutionary computation, 2001f:68116** *and* **2001f:68117**
**(Michalewicz, Zbigniew)** *see* **Evolutionary computation, 2001f:68116** *and* **2001f:68117**
**(Prade, Henri)** *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**

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**Evolutionary computation** ★ Evolutionary computation. 1. **2001f:68116**
— ★ Evolutionary computation. 2. **2001f:68117**
**Fuzzy sets in approximate reasoning and information systems** ★ Fuzzy sets in approximate reasoning and information systems. **2001f:68011**

## 68–01 Instructional exposition (textbooks, tutorial papers, etc.)

**de Almeida, Ana Maria** (*with* Rodrigues, Rosália) ★ Classificação e complexidade de problemas. (Portuguese. English and Portuguese summaries) [Classification and complexity of problems]
**Bernasconi, Anna** (*with* Codenotti, Bruno) ★ Introduzione alla complessità computazionale. (Italian. Italian summary) [Introduction to computational complexity] **2001b:68001**
**(Clarke, Edmund M.)** *see* **Huth, Michael, 2001e:68001**
**Codenotti, Bruno** *see* **Bernasconi, Anna, 2001b:68001**
**Fullér, Róbert** ★ Introduction to neuro-fuzzy systems. (English summary) **2001i:68001**
**Huth, Michael** (*with* Ryan, Mark) ★ Logic in computer science: modelling and reasoning about systems. (English summary) **2001e:68001**
**Lu, Zhongwan** ★ Mathematical logic for computer science. **2001m:68001**
**Meduna, Alexandr** ★ Automata and languages. (English summary) **2001c:68001**
**(O'Shea, Donal)** *see* **Séroul, Raymond, 2001a:68001**
**Rodrigues, Rosália** *see* **de Almeida, Ana Maria**
**Ryan, Mark** *see* **Huth, Michael, 2001e:68001**
**Séroul, Raymond** ★ Programming for mathematicians. (English summary) **2001a:68001**
**Thalheim, Bernhard** ★ Entity-relationship modeling. (English summary) **2001a:68002**

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**Duda, Richard O.** (*with* Hart, Peter E.; Stork, David G.) ★ Pattern classification. **2001k:68120**
**(Flajolet, Philippe)** *see* **Simovici, Dan A., 2001f:68077**
**Hansson, Sven-Ove** ★ A textbook of belief dynamics. (English summary) **2001b:03019a**
— ★ A textbook of belief dynamics. **2001b:03019b**
**Hart, Peter E.** *see* **Duda, Richard O. et al., 2001k:68120**
**Kreinovich, Vladik** *see* **Nguyen, Hung Trung, 2001g:68001**
**Nguyen, Hung Trung** (*with* Kreinovich, Vladik) ★ Applications of continuous mathematics to computer science. (English summary) **2001g:68001**
**Simmons, Harold** ★ Derivation and computation. (English summary) **2001i:03001**
**Simovici, Dan A.** (*with* Tenney, Richard L.) ★ Theory of formal languages with applications. (English summary) **2001f:68077**
**Ştefănescu, Gheorghe** ★ Network algebra. **2001d:68174**
**Stork, David G.** *see* **Duda, Richard O. et al., 2001k:68120**
**Tenney, Richard L.** *see* **Simovici, Dan A., 2001f:68077**

## 68–02 Research exposition (monographs, survey articles)

**Ausiello, Giorgio** (*with* Crescenzi, Pierluigi; Gambosi, Giorgio; Kann, Viggo; Marchetti-Spaccamela, Alberto; Protasi, M.) ★ Complexity and approximation. (English summary) **2001f:68002**
**Crescenzi, Pierluigi** *see* **Ausiello, Giorgio et al., 2001f:68002**
**Fogel, David B.** ★ Evolutionary computation. (English summary) **2001j:68001**
**Gambosi, Giorgio** *see* **Ausiello, Giorgio et al., 2001f:68002**
**Kann, Viggo** *see* **Ausiello, Giorgio et al., 2001f:68002**
**Kreinovich, Vladik** *see* **Nguyen, Hung Trung, 2001g:68001**
**Marchetti-Spaccamela, Alberto** *see* **Ausiello, Giorgio et al., 2001f:68002**
**Miller, Philip H.** ★ Strong generative capacity. (English summary) **2001c:68002**
**Nguyen, Hung Trung** (*with* Kreinovich, Vladik) ★ Applications of continuous mathematics to computer science. (English summary) **2001g:68001**
**Protasi, M.** *see* **Ausiello, Giorgio et al., 2001f:68002**

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**Aleksandrov, V. N.** (*with* Megson, G. M.) ★ Parallel algorithms for knapsack type problems. (English summary) **2001g:68101**
**Anthony, Martin** (*with* Bartlett, Peter L.) ★ Neural network learning: theoretical foundations. (English summary) **2001b:68061**
**Arratia-Quesada, Argimiro A.** ★ Introducción a la teoría descriptiva de la computabilidad. (Spanish) [Introduction to descriptive computability theory] **2001j:68047**
**(Atallah, Mikhail J.)** *see* **Handbook: Algorithms and theory of computation, 2001f:68001**
**Bartlett, Peter L.** *see* **Anthony, Martin, 2001b:68061**
**Birkedal, Lars** ★ Developing theories of types and computability via realizability. (English summary) **2001k:03001**
**(Bossomaier, Terry R. J.)** *see* **Complex systems, 2001c:00008**
**Downey, Rodney G.** (*with* Fellows, Michael R.) ★ Parameterized complexity. (English summary) **2001b:68042**
**Du, Ding-Zhu** (*with* Ko, Ker-I) ★ Theory of computational complexity. (English summary) **2001k:68036**
**Fellows, Michael R.** *see* **Downey, Rodney G., 2001b:68042**
**Fokkink, Willem Jan** ★ Introduction to process algebra. (English summary) **2001m:68135**
**Gallier, Jean** ★ Curves and surfaces in geometric modeling. (English summary) **2001m:65001**
**(Green, David G.)** *see* **Complex systems, 2001c:00008**
**Hammer, Barbara** ★ Learning with recurrent neural networks. **2001j:68101**
**Harel, David** (*with* Kozen, Dexter; Tiuryn, Jerzy) ★ Dynamic logic. (English summary) **2001i:68110**
**Immerman, Neil** ★ Descriptive complexity. (English summary) **2001f:68044**
**Ko, Ker-I** *see* **Du, Ding-Zhu, 2001k:68036**
**Kozen, Dexter** *see* **Harel, David et al., 2001i:68110**
**Megson, G. M.** *see* **Aleksandrov, V. N., 2001g:68101**
**Păun, Gheorghe** ★ Marcus contextual grammars. **2001k:68077**
**Pearl, Judea** ★ Causality. (English summary) **2001d:68213**
**Peleg, David** ★ Distributed computing. **2001g:68010**
**Schaub, Torsten H.** ★ The automation of reasoning with incomplete information. (English summary) **2001a:68086**
**Ştefănescu, Gheorghe** ★ Network algebra. **2001d:68174**
**Tiuryn, Jerzy** *see* **Harel, David et al., 2001i:68110**
**Wan, Peng-Jun** ★ Multichannel optical networks. **2001m:90003**
**Wegener, Ingo** ★ Branching programs and binary decision diagrams. (English summary) **2001h:68038**
**Zwanenburg, Jan** ★ Object-oriented concepts and proof rules: formalization in type theory and implementation in Yarrow. (English and Dutch summaries) **2001b:68022**

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**Complex systems** ★ Complex systems. **2001c:00008**
**Handbook:**
**Algorithms and theory of computation** ★ Algorithms and theory of computation handbook. **2001f:68001**
**Lecture Notes in Computer Science** *see* **Schaub, Torsten H., 2001a:68086**
**Lecture Notes in Control and Information Sciences** *see* **Hammer, Barbara, 2001j:68101**

## 68–03 Historical (must also be assigned at least one classification number from Section 01)

**Babai, László** The forbidden sidetrip. (*see* **2001b:68032**)
**(Babbage, Charles)** *see* **Bromley, Allan G.** *and* **Dodge, N. S.**
**Bromley, Allan G.** Babbage's analytical engine plans 28 and 28a—the programmer's interface. (English summary)
**(Campbell-Kelly, Martin)** *see* **Dodge, N. S.**
**Copeland, B. Jack** (*with* Proudfoot, Diane) What Turing did after he invented the universal Turing machine. (English summary) **2001h:68001**
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**Ascona** ★ Selected papers from the Workshop on Theoretical Aspects of Computer Science (WG 99). Part 1. **2001e:68014**
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**Atlanta, GA** ★ Annual ACM Symposium on Theory of Computing. **2001f:68004**
— ★ Fourteenth Annual IEEE Conference on Computational Complexity. **2001j:68005**
— ★ Special issue on the Fourteenth Annual IEEE Conference on Computational Complexity. **2001j:68004**
**Austin, TX** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
— ★ Special issue in honor of Edsger W. Dijkstra. **2001i:68012**
**Automata, languages and programming** ★ Automata, languages and programming. **2001f:68008**

**Automated deduction in geometry** ★ Automated deduction in geometry. **2001c:68004**
**Bad Malente** ★ COMPOS 1997. **2001h:68002**
**Baltimore, MD** ★ Special issue on functional programming and computational complexity.
**Beijing** ★ Automated deduction in geometry. **2001c:68004**
**Bergen** ★ Algorithm theory—SWAT 2000. **2001f:68005**
**Berkeley, CA** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Berlin** ★ CMCS'2000: coalgebraic methods in computer science. **2001e:68006**
— ★ Foundations of software science and computation structures. **2001f:68010**
— ★ Selected papers of the European Symposium on Programming. **2001i:68014**
**Bled** ★ Inductive logic programming. **2001b:68007**
**Bologna** ★ AI*IA 99: Advances in artificial intelligence. **2001e:68002**
**Bonn** ★ KI-99: advances in artificial intelligence. **2001c:68006**
**Brno** ★ Grammar systems. **2001a:68003**
**Burg** ★ Foundations of information and knowledge systems. **2001c:68005**
**CADE** ★ CADE 1996. **2001g:68002**
**Calculational system design** ★ Calculational system design. **2001d:68005**
**Canberra** ★ CATS 2000: Computing: the Australasian Theory Symposium. **2001d:68029**
**Cellular automata: from modeling to applications** ★ Cellular automata: from modeling to applications. **2001m:68002**
**Chennai** ★ Foundations of software technology and theoretical computer science. **2001d:68010**
— ★ Algorithms and computation. **2001f:68007**
**CMCS'2000: coalgebraic methods in computer science** ★ CMCS'2000: coalgebraic methods in computer science. **2001e:68006**
**Coalgebraic methods in computer science** ★ Coalgebraic methods in computer science.
**Colloquium:**
**Automata, Languages and Programming** ★ Automata, languages and programming. **2001f:68008**
**Mathematics and Computer Science** ★ Mathematics and computer science. **2001f:68013**
**Theoretical Computer Science** ★ Special issue on BCTCS. **2001i:68011**
**Combinatorial algorithms** ★ Combinatorial algorithms. **2001f:68009**
**Combinatorial pattern matching** ★ Combinatorial pattern matching. **2001e:68007**
**COMPOS** ★ COMPOS 1997. **2001h:68002**
**Computational intelligence in data mining** ★ Computational intelligence in data mining. **2001j:68002**
**Computer algebra and mechanized reasoning** ★ Computer algebra and mechanized reasoning.
**Computer and games** ★ Computer and games. **2001h:68003**
**Computing and combinatorics** ★ Computing and combinatorics. **2001b:68004**
— ★ Computing and combinatorics.
**Concurrency, specification and programming** ★ Concurrency, specification and programming. **2001g:68003**
**Conference:**
**Algebraic Methodology and Software Technology** ★ Algebraic methodology and software technology. **2001b:68003**
**Algorithmic Learning Theory** ★ Algorithmic learning theory. **2001f:68006**
**Algorithms and Complexity** ★ Algorithms and complexity. **2001c:68003**
**Application and Theory of Petri Nets** ★ Application and theory of Petri nets 1999. **2001e:68005**
**Artificial Intelligence** ★ KI-99: advances in artificial intelligence. **2001c:68006**
— ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
— ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Automated Deduction** ★ CADE 1996. **2001g:68002**
**Canadian Society for Computational Studies of Intelligence** ★ Advances in artificial intelligence. **2001e:68003**
**Category Theory and Computer Science** ★ CTCS '99: Conference on Category Theory and Computer Science. **2001d:68006**
**Cellular Automata for Research and Industry** ★ Cellular automata: from modeling to applications. **2001m:68002**
**Computational Learning Theory** ★ Eleventh Annual Conference on Computational Learning Theory. **2001d:68007**
**Computer Aided Verification** ★ FLOC '96. **2001j:68003**
**Computing and Combinatorics** ★ Computing and combinatorics. **2001b:68004**
**Computing Science** ★ Advances in computing science—ASIAN'98. **2001d:68001**
**Current Trends in Theory and Practice of Informatics** ★ SOFSEM'99: theory and practice of informatics. **2001d:68023**
**Database Theory** ★ Database theory. **2001b:68005**
**Discrete and Computational Geometry** ★ Discrete and computational geometry. **2001e:68008**
**FLAIRS** ★ Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference. **2001a:68007**
**Foundations of Software Science and Computation Structures** ★ Foundations of software science and computation structures. **2001e:68009**
— ★ Foundations of software science and computation structures. **2001f:68010**
**Foundations of Software Technology and Theoretical Computer Science** ★ Foundations of software technology and theoretical computer science. **2001d:68010**
**Fuzzy Logic and Fuzzy Technology** ★ Fuzzy logic and fuzzy technology. **2001b:68006**
**Innovative Applications of Artificial Intelligence** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Logic** ★ FLOC '96. **2001j:68003**
**Logic Programming** ★ Workshop on Verification of Logic Programs. ICLP'99: International Conference on Logic Programming. **2001e:68015**
**Logic Programming and Nonmonotonic Reasoning** ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
**Mathematics of Program Construction** ★ Mathematics of program construction. **2001a:68005**
**Modern Algebra and its Applications** ★ Modern algebra and its applications. **2001e:68011**
**Natural Language Processing** ★ Natural language processing—NLP 2000. **2001c:68008**
**Conference:** (*cont'd.*)
**Neural Networks and their Applications** ★ Neuro-fuzzy and soft computing. **2001h:68006**
**Programming** ★ УкрПРОГ'2000. (Russian) [UkrPROG'2000] **2001g:68006**
**Rewriting Techniques and Applications** ★ RTA-98. **2001d:68019**
**Semigroups and Algebraic Engineering** ★ Semigroups and algebraic engineering. **2001d:68028**
**Symbolic and Quantitative Approaches to Reasoning and Uncertainty** ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
**Theoretical Aspects of Computer Science** ★ TARA 2000.
**Theory and Practice of Software** ★ Foundations of software science and computation structures. **2001e:68009**
— ★ Foundations of software science and computation structures. **2001f:68010**
**Congress:**
**Fuzzy Logic and Technology** ★ 8th Spanish Congress on Fuzzy Logic and Technology. **2001d:68008**
**Italian Association for Artificial Intelligence** ★ AI*IA 99: Advances in artificial intelligence. **2001e:68002**
**Coordination** ★ Coordination.
**Dagstuhl** ★ Logics in artificial intelligence. **2001c:68007**
**Dallas, TX** ★ STOC '98. **2001d:68026**
— ★ 30th Annual ACM Symposium on Theory of Computing. **2001d:68027**
**Database theory** ★ Database theory. **2001b:68005**
**Delphi** ★ Database theory. **2001b:68005**
**Descriptional complexity of automata, grammars and related structures** ★ Descriptional complexity of automata, grammars and related structures. **2001d:68009**
**Dictionary based compression** ★ Dictionary based compression.
**Discrete and computational geometry** ★ Discrete and computational geometry. **2001e:68008**
**Edinburgh** ★ CTCS '99: Conference on Category Theory and Computer Science. **2001d:68006**
**Eindhoven** ★ EXPRESS'99: the 6th International Workshop on Expressiveness in Concurrency. **2001c:68013**
**El Paso, TX** ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
— ★ STOC '97. **2001d:68025**
**Electronic notes in theoretical computer science** ★ Electronic notes in theoretical computer science. 35. **2001i:68003**
— ★ Electronic notes in theoretical computer science. 36. **2001i:68004**
— ★ Electronic notes in theoretical computer science. 37. **2001i:68005**
**Festschrift:**
**Dijkstra, Edsger W.** ★ Special issue in honor of Edsger W. Dijkstra. **2001i:68012**
**Lauer, Peter Ernst** ★ {Tribute to Peter Ernst Lauer}. **2001d:68030**
**Milner, Robin** ★ Proof, language, and interaction. **2001c:68009**
**FLOC '96** ★ FLOC '96. **2001j:68003**
**Florence** ★ 15th Annual IEEE Conference on Computational Complexity. **2001j:68006**
**Foundations of information and knowledge systems** ★ Foundations of information and knowledge systems. **2001c:68005**
**Foundations of software science and computation structures** ★ Foundations of software science and computation structures. **2001e:68009**
— ★ Foundations of software science and computation structures. **2001f:68010**
**Foundations of software technology and theoretical computer science** ★ Foundations of software technology and theoretical computer science. **2001d:68010**
**Fukushima** ★ Semigroups and algebraic engineering. **2001d:68028**
**Fuzzy logic and fuzzy technology** ★ Fuzzy logic and fuzzy technology. **2001b:68006**
**Fuzzy sets in approximate reasoning and information systems** ★ Fuzzy sets in approximate reasoning and information systems. **2001f:68011**
**Geneva** ★ Automata, languages and programming. **2001f:68008**
**Geometry and concurrency** ★ Geometry and concurrency. **2001d:68011**
**Ghent** ★ Reasoning with imprecise probabilities. **2001a:68006**
**Grammar systems** ★ Grammar systems. **2001a:68003**
**Graz** ★ Fifth European Symposium on Algorithms. **2001e:68012**
**Handbook:**
**Graph grammars and computing by graph transformation** ★ Handbook of graph grammars and computing by graph transformation. Vol. 2. Applications, languages and tools. **2001d:68012**
— ★ Handbook of graph grammars and computing by graph transformation. Vol. 3. Concurrency, parallelism, and distribution. **2001d:68013**
**Heuristic search in artificial intelligence** ★ Heuristic search in artificial intelligence.
**Hong Kong** ★ Proceedings of the Sixteenth Annual Symposium on Computational Geometry. **2001i:68009**
**HOOTS'99: higher order operational techniques in semantics** ★ HOOTS'99: higher order operational techniques in semantics. **2001d:68014**
**Iasi** ★ Workshop on Formal Languages and Automata. **2001c:68014**
— ★ ROSYCS'98. **2001c:68010**
**Identification and modeling of control systems** ★ Идентификация и моделирование управляющих систем. (Russian) [Identification and modeling of control systems] **2001h:68004**
**IEEE Conference:**
**Computational Complexity** ★ Fourteenth Annual IEEE Conference on Computational Complexity. **2001j:68005**
— ★ Twelfth Annual IEEE Conference on Computational Complexity. **2001d:68015**
— ★ 15th Annual IEEE Conference on Computational Complexity. **2001j:68006**
— ★ Special issue on the Fourteenth Annual IEEE Conference on Computational Complexity. **2001j:68004**
**IEEE Symposium:**
**Logic in Computer Science** ★ LICS 1996. Part I. **2001d:68016**
**Indianapolis, IN** ★ RealComp'98: real number computation. **2001d:68022**
**Inductive logic programming** ★ Inductive logic programming. **2001b:68007**
**Intensional programming** ★ Intensional programming. II. **2001m:68003**
**ISTCS'96** ★ ISTCS'96.

**Jerusalem** ★ ISTCS'96.
**Kanazawa** ★ Electronic notes in theoretical computer science. 36. **2001i:68004**
**Keele** ★ Special issue on BCTCS. **2001i:68011**
**KI-99: advances in artificial intelligence** ★ KI-99: advances in artificial intelligence. **2001c:68006**
**Kiev** ★ УкрПРОГ'2000. (Russian) [UkrPROG'2000] **2001g:68006**
**Kihei, HI** ★ Proceedings of the 1997 International Symposium on Symbolic and Algebraic Computation. **2001i:68010**
**Kyoto** ★ Special issue on functional and logic programming. Part 1. **2001i:68013**
**Las Cruces, NM** ★ Workshop on Verification of Logic Programs. ICLP'99: International Conference on Logic Programming. **2001e:68015**
— ★ WLPE'99, Tenth Workshop on Logic Programming Environments.
— ★ Parallelism and implementation technology for (constraint) logic programming.
**Lecture Notes in Computer Science** ★ Logic program synthesis and transformation. **2001a:68004**
— ★ Inductive logic programming. **2001b:68007**
— ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
— ★ Automated deduction in geometry. **2001c:68004**
— ★ KI-99: advances in artificial intelligence. **2001c:68006**
— ★ Foundations of software technology and theoretical computer science. **2001d:68010**
— ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
— ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
— ★ SOFSEM'99: theory and practice of informatics. **2001d:68023**
— ★ Application and theory of Petri nets 1999. **2001e:68005**
— ★ Foundations of software science and computation structures. **2001e:68009**
— ★ Algorithmic learning theory. **2001f:68006**
— ★ Algorithms and computation. **2001f:68007**
— ★ Algorithms and complexity. **2001c:68003**
— ★ Foundations of information and knowledge systems. **2001c:68005**
— ★ Natural language processing—NLP 2000. **2001c:68008**
— ★ STACS 2000. **2001d:68024**
— ★ AI*IA 99: Advances in artificial intelligence. **2001e:68002**
— ★ Advances in artificial intelligence. **2001e:68003**
— ★ Combinatorial pattern matching. **2001e:68007**
— ★ Discrete and computational geometry. **2001e:68008**
— ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
— ★ Theory and application of graph transformations. **2001e:68013**
— ★ Algorithm theory—SWAT 2000. **2001f:68005**
— ★ Automata, languages and programming. **2001f:68008**
— ★ Foundations of software science and computation structures. **2001f:68010**
**LICS 1996** ★ LICS 1996. Part I. **2001d:68016**
**Lille** ★ STACS 2000. **2001d:68024**
**Lisbon** ★ Coalgebraic methods in computer science.
**Logic program synthesis and transportation** ★ Logic program synthesis and transformation. **2001a:68004**
**Logic programming and nonmonotonic reasoning** ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
**Logical formalisms for program composition** ★ Logical formalisms for program composition. **2001f:68012**
**Logics in artificial intelligence** ★ Logics in artificial intelligence. **2001c:68007**
**London** ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
**Madison, WI** ★ Proceedings of the Eleventh Annual Conference on Computational Learning Theory. **2001i:68007**
— ★ Eleventh Annual Conference on Computational Learning Theory. **2001d:68007**
**Magdeburg** ★ Descriptional complexity of automata, grammars and related structures. **2001d:68009**
**Maintaining case-based reasoning systems** ★ {Maintaining case-based reasoning systems}.
**Mallorca** ★ Real-time systems and concurrent and distributed software. **2001h:68008**
**Manila** ★ Advances in computing science—ASIAN'98. **2001d:68001**
**Marktoberdorf** ★ Calculational system design. **2001d:68005**
**Marne-la-Vallée** ★ Journées Montoises d'Informatique Théorique. [Proceedings of the Mons Conference on Theoretical Computer Science]
**Marstrand** ★ Mathematics of program construction. **2001a:68005**
**Mathematics and computer science** ★ Mathematics and computer science. **2001f:68013**
**Mathematics of program construction** ★ Mathematics of program construction. **2001a:68005**
**Meeting:**
**Mathematics of Language** ★ Sixth Meeting on Mathematics of Language (MOL6). **2001i:68006**
**Miami Beach, FL** ★ Proceedings of the Fifteenth Annual Symposium on Computational Geometry. **2001g:68004**
**MICAI 2000: advances in artificial intelligence** ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
**Milovy** ★ SOFSEM'99: theory and practice of informatics. **2001d:68023**
**Minneapolis, MN** ★ {Fourteenth ACM Symposium on Computational Geometry}.
**Mobile networks and computing** ★ Mobile networks and computing. **2001b:68008**
**Models and paradigms for concurrency** ★ Models and paradigms for concurrency. **2001h:68005**
**Modern algebra and its applications** ★ Modern algebra and its applications. **2001e:68011**
**Montreal, QC** ★ Advances in artificial intelligence. **2001e:68003**
— ★ Combinatorial pattern matching. **2001e:68007**
**Munich** ★ Algebraic methodology and software technology. **2001b:68003**
**Nashville, TN** ★ Proceedings of the Tenth Annual Conference on Computational Learning Theory. **2001j:68007**
— ★ Modern algebra and its applications. **2001e:68011**
**NATO Advanced Study Institute:**
**Calculational System Design** ★ Calculational system design. **2001d:68005**
**Natural language processing—NLP 2000** ★ Natural language processing—NLP 2000. **2001c:68008**
**Neuro-fuzzy and soft computing** ★ Neuro-fuzzy and soft computing. **2001h:68006**
**New Brunswick, NJ** ★ Mobile networks and computing. **2001b:68008**
— ★ Robust communication networks: interconnection and survivability. **2001c:68011**
— ★ LICS 1996. Part I. **2001d:68016**
— ★ CADE 1996. **2001g:68002**
— ★ FLOC '96. **2001j:68003**
**New trends in graph drawing** ★ New trends in graph drawing. **2001d:68018**
**Novi Sad** ★ TARA 2000.
**Orlando, FL** ★ Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference. **2001a:68007**
— ★ Sixth Meeting on Mathematics of Language (MOL6). **2001i:68006**
**Paderborn** ★ Theory and application of graph transformations. **2001e:68013**
**Pamplona** ★ Fuzzy logic and fuzzy technology. **2001b:68006**
— ★ 8th Spanish Congress on Fuzzy Logic and Technology. **2001d:68008**
**Parallelism and implementation technology for (constraint) logic programming** ★ Parallelism and implementation technology for (constraint) logic programming.
**Paris** ★ HOOTS'99: higher order operational techniques in semantics. **2001d:68014**
**Partial evaluation and semantics-based program manipulation** ★ Partial evaluation and semantics-based program manipulation. **2001e:68012**
**Patras** ★ Natural language processing—NLP 2000. **2001c:68008**
**Perth** ★ Combinatorial algorithms. **2001f:68009**
**Pisa** ★ Joint International Symposium PLILP/ALP'98. Part I. **2001b:68010**
**Pittsburgh, PA** ★ Electronic notes in theoretical computer science. 37. **2001i:68005**
**Proceedings:**
**AAAI-2000/IAAI-2000** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Conference on Algorithms and Experiments** ★ Proceedings of the First Conference on Algorithms and Experiments ALEX98.
**Conference on Computational Learning Theory** ★ Proceedings of the Tenth Annual Conference on Computational Learning Theory. **2001j:68007**
— ★ Proceedings of the Eleventh Annual Conference on Computational Learning Theory. **2001i:68007**
— ★ Proceedings of the Twelfth Annual Conference on Computational Learning Theory. **2001i:68008**
**Conference on Theoretical Computer Science** ★ Journées Montoises d'Informatique Théorique. [Proceedings of the Mons Conference on Theoretical Computer Science]
**Symposium on Computational Geometry** ★ Proceedings of the Fifteenth Annual Symposium on Computational Geometry. **2001g:68004**
— ★ Proceedings of the Sixteenth Annual Symposium on Computational Geometry. **2001i:68009**
**Symposium on Symbolic and Algebraic Computation** ★ Proceedings of the 1997 International Symposium on Symbolic and Algebraic Computation. **2001i:68010**
— ★ Proceedings of the 1998 International Symposium on Symbolic and Algebraic Computation. **2001m:68004**
**Proof, language, and interaction** ★ Proof, language, and interaction. **2001c:68009**
**Puerto Vallarta** ★ ACM Symposium on Parallel Algorithms and Architectures. **2001i:68002**
**Randomization, approximation, and combinatorial optimization** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Randomized computing** ★ Randomized computing. **2001d:68021**
**Real-time systems and concurrent and distributed software** ★ Real-time systems and concurrent and distributed software. **2001h:68008**
**RealComp'98: real number computation** ★ RealComp'98: real number computation. **2001d:68022**
**Reasoning with imprecise probabilities** ★ Reasoning with imprecise probabilities. **2001a:68006**
**Reisensburg Castle** ★ Special issue on tools for system design and verification. Part 2. **2001k:68001**
**Remagen-Rolandseck** ★ Electronic notes in theoretical computer science. 35. **2001i:68003**
**Robust communication networks: interconnection and survivability** ★ Robust communication networks: interconnection and survivability. **2001c:68011**
**Rome** ★ New trends in graph drawing. **2001d:68018**
— ★ Algorithms and complexity. **2001c:68003**
**Rostock** ★ Proceedings of the 1998 International Symposium on Symbolic and Algebraic Computation. **2001m:68004**
**ROSYCS'98** ★ ROSYCS'98. **2001c:68010**
**RTA-98** ★ RTA-98. **2001d:68019**
**Saarbrücken** ★ Algorithms for future technologies. **2001d:68003**
**Sanibel Island, FL** ★ Time and temporal reasoning. **2001b:68011**
**Santa Cruz, CA** ★ Proceedings of the Twelfth Annual Conference on Computational Learning Theory. **2001i:68008**
**School:**
**Calculational System Design** ★ Calculational system design. **2001d:68005**
**Seattle, WA** ★ Special issue on the Seventeenth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems. **2001f:68003**
**Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference** ★ Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference. **2001a:68007**
**Semigroups and algebraic engineering** ★ Semigroups and algebraic engineering. **2001d:68028**
**Semiotics and information science** ★ Семиотика и информатика. Вып. 29. (Russian) [Semiotics and information science. No. 29] **2001g:68005**
**Sendai** ★ Algorithmic learning theory.
**Shanghai** ★ Computing and combinatorics. **2001b:68004**
**SOFSEM'99: theory and practice of informatics** ★ SOFSEM'99: theory and practice of informatics. **2001d:68023**
**Special Issue:**
**Abductive logic programming** ★ Abductive logic programming. **2001b:68002**
**Alan Turing and artificial intelligence** ★ Alan Turing and artificial intelligence. **2001e:68004**
**BCTCS** ★ Special issue on BCTCS. **2001i:68011**

**Special Issue:** (*cont'd.*)
**Coordination** ★ Coordination.
**Dijkstra, Edsger W.** ★ Special issue in honor of Edsger W. Dijkstra. **2001i:68012**
**Functional and logic programming** ★ Special issue on functional and logic programming. Part 1. **2001i:68013**
**Functional programming and computational complexity** ★ Special issue on functional programming and computational complexity.
**Geometry and concurrency** ★ Geometry and concurrency. **2001d:68011**
**Logical formalisms for program composition** ★ Logical formalisms for program composition. **2001f:68012**
**Randomized computing** ★ Randomized computing. **2001d:68021**
**Tools for system design and verification** ★ Special issue on tools for system design and verification. Part 2. **2001k:68001**
**St. Andrews** ★ Symbolic computation and automated reasoning. **2001j:68008**
**—** ★ Computer algebra and mechanized reasoning.
**STACS 2000** ★ STACS 2000. **2001d:68024**
**Stategies in automated deduction** ★ Strategies in automated deduction.
**STOC '97** ★ STOC '97. **2001d:68025**
**STOC '98** ★ STOC '98. **2001d:68026**
**Stockholm** ★ Logic program synthesis and transformation. **2001a:68004**
**Sydney** ★ Algorithmic learning theory.
**Symbolic and quantitative approaches to reasoning and uncertainty** ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
**Symbolic computation and automated reasoning** ★ Symbolic computation and automated reasoning. **2001j:68008**
**Symposium:**
**Algorithms** ★ Fifth European Symposium on Algorithms. **2001c:68012**
**Algorithms and Computation** ★ Algorithms and computation. **2001f:68007**
**Combinatorial Pattern Matching** ★ Combinatorial pattern matching. **2001e:68007**
**Compositionality: the Significant Difference** ★ COMPOS 1997. **2001h:68002**
**Computer Science** ★ ROSYCS'98. **2001c:68010**
**Computing: Theory** ★ CATS 2000: Computing: the Australasian Theory Symposium. **2001d:68029**
**Foundations of Information and Knowledge Systems** ★ Foundations of information and knowledge systems. **2001c:68005**
**Graph Drawing** ★ New trends in graph drawing. **2001d:68018**
**Imprecise Probabilities** ★ Reasoning with imprecise probabilities. **2001a:68006**
**In Pursuit of Simplicity** ★ Special issue in honor of Edsger W. Dijkstra. **2001i:68012**
**Integration of Symbolic Computation and Mechanical Reasoning** ★ Computer algebra and mechanized reasoning.
**Integration of Symbolic Computation and Mechanized Reasoning** ★ Symbolic computation and automated reasoning. **2001j:68008**
**Languages for Intensional Programming** ★ Intensional programming. II. **2001m:68003**
**Programming** ★ Selected papers of the European Symposium on Programming. **2001i:68014**
**Programming Language Implementation and Logic Programming/Algebraic and Logic Programming** ★ Joint International Symposium PLILP/ALP'98. Part I. **2001b:68010**
**Symbolic and Algebraic Computation** ★ Computer algebra and mechanized reasoning.
**Theoretical Aspects of Computer Science** ★ STACS 2000. **2001d:68024**
**Theoretical Foundations of Computer Science: toward a Paradigm for Computing in the 21st Century** ★ Keisanki kagaku no kiso riron: 21 seiki no keisan paradaimu o mezashite. (Japanese) [Theoretical foundations of computer science: toward a paradigm for computing in the 21st century] **2001f:68014**
**Theory of Computing and Systems** ★ ISTCS'96.
**Taipei** ★ Computing and combinatorics.
**TARA 2000** ★ TARA 2000.
**Theoretical foundations of computer science: toward a paradigm for computing in the 21st century** ★ Keisanki kagaku no kiso riron: 21 seiki no keisan paradaimu o mezashite. (Japanese) [Theoretical foundations of computer science: toward a paradigm for computing in the 21st century] **2001f:68014**
**Theory and application of graph transformations** ★ Theory and application of graph transformations. **2001e:68013**
**Theory and applications of explicit substitutions** ★ Theory and applications of explicit substitutions.
**Time and temporal reasoning** ★ Time and temporal reasoning. **2001b:68011**
**Tokyo** ★ Algorithmic learning theory. **2001f:68006**
**—** ★ Discrete and computational geometry. **2001e:68008**
**Trento** ★ Proceedings of the First Conference on Algorithms and Experiments ALEX98.
**Tribute to Peter Ernst Lauer** ★ {Tribute to Peter Ernst Lauer}. **2001d:68030**
**Trieste** ★ Cellular automata: from modeling to applications. **2001m:68002**
**Tsukuba** ★ RTA-98. **2001d:68019**
**—** ★ Computer and games. **2001h:68003**
**Udine** ★ Computational intelligence in data mining. **2001j:68002**
**—** ★ Models and paradigms for concurrency. **2001h:68005**
**UkrPROG'2000** ★ УкрПРОГ'2000. (Russian) [UkrPROG'2000] **2001g:68006**
**Ulm** ★ Twelfth Annual IEEE Conference on Computational Complexity. **2001d:68015**
**Versailles** ★ Mathematics and computer science. **2001f:68013**
**Warsaw** ★ Concurrency, specification and programming. **2001g:68003**
**Williamsburg, VA** ★ Application and theory of Petri nets 1999. **2001e:68005**
**Workshop:**
**Algorithm Theory** ★ Algorithm theory—SWAT 2000. **2001f:68005**
**Algorithmic Learning Theory** ★ Algorithmic learning theory.
**Algorithms for Future Technologies—Keep in Touch** ★ Algorithms for future technologies. **2001d:68003**
**Approximation Algorithms for Combinatorial Optimization Problems** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Automated Deduction in Geometry** ★ Automated deduction in geometry. **2001c:68004**
**Coalgebraic Methods in Computer Science** ★ CMCS'2000: coalgebraic methods in computer science. **2001e:68006**
**Combinatorial Algorithms** ★ Combinatorial algorithms. **2001f:68009**

**Workshop:** (*cont'd.*)
**Descriptional Complexity of Automata, Grammars and Related Structures** ★ Descriptional complexity of automata, grammars and related structures. **2001d:68009**
**Domains** ★ Electronic notes in theoretical computer science. 35. **2001i:68003**
**Expressiveness in Concurrency** ★ EXPRESS'99: the 6th International Workshop on Expressiveness in Concurrency. **2001c:68013**
**Formal Languages and Automata** ★ Workshop on Formal Languages and Automata. **2001c:68014**
**Grammar Systems** ★ Grammar systems. **2001a:68003**
**Higher Order Operational Techniques in Semantics** ★ HOOTS'99: higher order operational techniques in semantics. **2001d:68014**
**Implicit Computational Complexity in Programming Languages** ★ Special issue on functional programming and computational complexity.
**Inductive Logic Programming** ★ Inductive logic programming. **2001b:68007**
**Logic Program Synthesis and Transportation** ★ Logic program synthesis and transformation. **2001a:68004**
**Logic Programming Environments** ★ WLPE'99, Tenth Workshop on Logic Programming Environments.
**Logics in Artificial Intelligence** ★ Logics in artificial intelligence. **2001c:68007**
**Mobile Networks and Computing** ★ Mobile networks and computing. **2001b:68008**
**Parallelism and Implementation Technology for (Constraint) Logic Programming** ★ Parallelism and implementation technology for (constraint) logic programming.
**Randomization and Approximation Techniques in Computer Science** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Real Number Computation** ★ RealComp'98: real number computation. **2001d:68022**
**Rewriting Logic and its Applications** ★ Electronic notes in theoretical computer science. 36. **2001i:68004**
**Robust Communication Networks: Interconnection and Survivability** ★ Robust communication networks: interconnection and survivability. **2001c:68011**
**Temporal Representation and Reasoning** ★ Time and temporal reasoning. **2001b:68011**
**Theoretical Aspects of Computer Science** ★ Selected papers from the Workshop on Theoretical Aspects of Computer Science (WG 99). Part 1. **2001e:68014**
**Theory and Application of Graph Transformations** ★ Theory and application of graph transformations. **2001e:68013**
**Tools for System Design and Verification** ★ Special issue on tools for system design and verification. Part 2. **2001k:68001**
**Type-theoretic Languages: Proof Search and Semantics** ★ Electronic notes in theoretical computer science. 37. **2001i:68005**
**Verification of Logic Programs** ★ Workshop on Verification of Logic Programs. ICLP'99: International Conference on Logic Programming. **2001e:68015**
**Zakopane** ★ Neuro-fuzzy and soft computing. **2001h:68006**

Items with secondary classifications in 68–06

**(Ahlswede, Rudolf F.)** *see* **Numbers, information and complexity, 2001a:00038**
**(Althöfer, Ingo)** *see* **Numbers, information and complexity, 2001a:00038**
**(Avreski, D. R.)** *see* **Dependable network computing, 2001a:68013**
**(Barr, Richard S.)** *see* **Interfaces in computer science and operations research, 2001d:90008**
**(Bonacina, Maria Paola)** *see* **Advances in first-order theorem proving, 2001a:03003**
**(Caferra, Ricardo)** *see* **Automated deduction in classical and non-classical logics, 2001f:03008**
**(Cai, Ning)** *see* **Numbers, information and complexity, 2001a:00038**
**(Calude, Cristian S.)** *see* **People & ideas in theoretical computer science, 2001b:68032** *and* **Finite versus infinite, 2001c:00030**
**(Cunningham, R. J.)** *see* **Conference: Formal and Applied Practical Reasoning, 2001j:03003**
**(De Baets, Bernard)** *see* **Preferences and decisions under incomplete knowledge, 2001e:68169**
**(DeVore, Ronald A.)** *see* **Foundations of computational mathematics, 2001m:65003**
**(Dueck, Gunter)** *see* **Numbers, information and complexity, 2001a:00038**
**(Fodor, János C.)** *see* **Preferences and decisions under incomplete knowledge, 2001e:68169**
**(Furbach, Ulrich)** *see* **Advances in first-order theorem proving, 2001a:03003**
**(Gabbay, Dov M.)** *see* **Conference: Formal and Applied Practical Reasoning, 2001j:03003**
**(Gifford, David K.)** *see* **DNA based computers, 2001f:68031**
**(Helgason, Richard V.)** *see* **Interfaces in computer science and operations research, 2001d:90008**
**(Iserles, Arieh)** *see* **Foundations of computational mathematics, 2001m:65003**
**(Kamareddine, Fairouz)** *see* **Type theory and term rewriting, 2001a:00035**
**(Karloff, Howard)** *see* **Symposium: Discrete Algorithms, 2001d:00052**
**(Kennington, Jeffery L.)** *see* **Interfaces in computer science and operations research, 2001d:90008**
**(Khachatrian, Levon H.)** *see* **Numbers, information and complexity, 2001a:00038**
**(Klette, Reinhard)** *see* **Performance characterization in computer vision, 2001d:68215**
**(Klop, Jan Willem)** *see* **Type theory and term rewriting, 2001a:00035**
**(Marcus, Solomon)** *see* **Finite versus infinite, 2001c:00030**
**(Mitkov, Ruslan)** *see* **Recent advances in natural language processing, 2001i:68157**
**(Monderer, Dov)** *see* **Economics and artificial intelligence**
**(Nicolov, Nicolas)** *see* **Recent advances in natural language processing, 2001i:68157**
**(Păun, Gheorghe)** *see* **Finite versus infinite, 2001c:00030**
**(Perny, Patrice)** *see* **Preferences and decisions under incomplete knowledge, 2001e:68169**
**(Pinsker, Mark S.)** *see* **Numbers, information and complexity, 2001a:00038**
**(Salzer, Gernot)** *see* **Automated deduction in classical and non-classical logics, 2001f:03008**
**(Sárközy, András)** *see* **Numbers, information and complexity, 2001a:00038**
**(Stiehl, Siegfried H.)** *see* **Performance characterization in computer vision, 2001d:68215**
**(Süli, Endre)** *see* **Foundations of computational mathematics, 2001m:65003**
**(Teng, Shang-Hua)** *see* **Selected papers from the Sixth International Meshing Roundtable, 2001c:00023**
**(Tennenholtz, Moshe)** *see* **Economics and artificial intelligence**
**(Väänänen, Jouko)** *see* **Generalized quantifiers and computation, 2001b:03006**
**(Varian, Hal)** *see* **Economics and artificial intelligence**
**(Viergever, Max A.)** *see* **Performance characterization in computer vision, 2001d:68215**
**(Vincken, Koen L.)** *see* **Performance characterization in computer vision, 2001d:68215**
**(Wegener, Ingo)** *see* **Numbers, information and complexity, 2001a:00038**

**(Williams, Mary-Anne)** *see* **On commonsense reasoning**
**(Winfree, Erik)** *see* **DNA based computers, 2001f:68031**
**(Zhang, Zhen[1])** *see* **Numbers, information and complexity, 2001a:00038**

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**Advances in first-order theorem proving** ★ Advances in first-order theorem proving. **2001a:03003**
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**Automated deduction in classical and non-classical logics** ★ Automated deduction in classical and non-classical logics. **2001f:03008**
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  **Ahlswede, Rudolf F.** ★ Numbers, information and complexity. **2001a:00038**
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**Cambridge, MA** ★ DNA based computers. V. **2001f:68031**
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  **Computer Science and Operations Research: Recent Advances in the Interface** ★ Interfaces in computer science and operations research. **2001d:90008**
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**Dallas, TX** ★ Interfaces in computer science and operations research. **2001d:90008**
**Dependable network computing** ★ Dependable network computing. **2001a:68013**
**DNA based computers** ★ DNA based computers. V. **2001f:68031**
**Economics and artificial intelligence** ★ Economics and artificial intelligence.
**Festschrift:**
  **Ahlswede, Rudolf F.** ★ Numbers, information and complexity. **2001a:00038**
  **Marcus, Solomon** ★ Finite versus infinite. **2001e:00030**
**Finite versus infinite** ★ Finite versus infinite. **2001e:00030**
**Foundations of computational mathematics** ★ Foundations of computational mathematics. **2001m:65003**
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**Glasgow** ★ Type theory and term rewriting. **2001a:00035**
**Interfaces in computer science and operations research** ★ Interfaces in computer science and operations research. **2001d:90008**
**Lecture Notes in Computer Science** ★ Generalized quantifiers and computation. **2001b:03006**
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**Meeting:**
  **Theoretical Foundations of Computer Vision** ★ Performance characterization in computer vision. **2001d:68215**
**Numbers, information and complexity** ★ Numbers, information and complexity. **2001a:00038**
**On commonsense reasoning** ★ On commonsense reasoning. I.
**Oxford** ★ Foundations of computational mathematics. **2001m:65003**
**Park City, UT** ★ Selected papers from the Sixth International Meshing Roundtable. Part I. **2001c:00023**
**People & ideas in theoretical computer science** ★ People & ideas in theoretical computer science. **2001b:68032**
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  **Logic, Language, and Information** ★ Generalized quantifiers and computation. **2001b:03006**
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**Special Issue:**
  **Advances in first-order theorem proving** ★ Advances in first-order theorem proving. **2001a:03003**
**Studies in information science** ★ Исследования по информатике. Вып. 2. (Russian) [Studies in information science. No. 2] **2001m:00015**
**Symposium:**
  **Discrete Algorithms** ★ Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001d:00052**
  **Numbers, Information and Complexity** ★ Numbers, information and complexity. **2001a:00038**
**Type theory and term rewriting** ★ Type theory and term rewriting. **2001a:00035**
**Tzigov Chark** ★ Recent advances in natural language processing. II. **2001i:68157**
**Workshop:**
  **Generalized Quantifiers and Computation** ★ Generalized quantifiers and computation. **2001b:03006**

# 68Mxx Computer system organization

## 68M07 Mathematical problems of computer architecture

**Beth, Thomas** *see* **Egner, Sebastian et al., (2001i:68010)**
**Dubrova, E. V.** Upper bound on the number of product-terms in a sum-of-products expansion of multiple-valued functions. (English summary) **2001f:68015**
**Egner, Sebastian** (*with* Püschel, Markus; Beth, Thomas) Decomposing a permutation into a conjugated tensor product. (English summary) (*see* **2001i:68010**)
**Ercegovac, Milos D.** (*with* Lang, Tomás; Muller, Jean-Michel; Tisserand, Arnaud) Reciprocation, square root, inverse square root, and some elementary functions using small multipliers. (English summary) **2001e:68016**
**Feldstein, Alan** (*with* Goodman, Richard H.) Number shortening algorithms. (English summary) **2001j:68009**
**Filin, A. V.** (*with* Malyshev, Vadim A.; Manita, A. D.) Probabilistic models of computer architectures. (Russian. English and Russian summaries) (*see* **2001g:00017**)
**Flynn, Michael J.** (*with* Oberman, Stuart F.) ★ Advanced computer arithmetic design. (English summary)
**Frougny, Christiane** On-the-fly algorithms and sequential machines. (English summary) **2001e:68017**
**Fu, Fang Wei** (*with* Yeung, Raymond W.) On the capacity and error-correcting codes of write-efficient memories. (English summary) **2001k:68002**
**Goodman, Richard H.** *see* **Feldstein, Alan, 2001j:68009**
**Halbutoğullari, A.** (*with* Koç, Çetin K.) Mastrovito multiplier for general irreducible polynomials. (English summary) **2001d:68031**
**Kim, Taewhan** *see* **Um, Junhyung**
**Koç, Çetin K.** *see* **Halbutoğullari, A., 2001d:68031** *and* **Sunar, B.**
**Lang, Tomás** *see* **Ercegovac, Milos D. et al., 2001e:68016**
**Lennerstad, Håkan** (*with* Lundberg, Lars) Optimal worst case formulas comparing cache memory associativity. (English summary) **2001e:68018**
**Lundberg, Lars** *see* **Lennerstad, Håkan, 2001e:68018**
**Malyshev, Vadim A.** *see* **Filin, A. V. et al., (2001g:00017)**
**Manita, A. D.** *see* **Filin, A. V. et al., (2001g:00017)**
**Muller, Jean-Michel** *see* **Ercegovac, Milos D. et al., 2001e:68016**
**Nikitin, A. A.** On the minimal memory capacity necessary for the realization of Boolean functions by pipeline circuits. (Russian)
**Oberman, Stuart F.** *see* **Flynn, Michael J.**
**Premkumar, A. B.** On the optimal utilization of all available states in the $2^n$ moduli set. (English summary) **2001b:68012**
**Püschel, Markus** *see* **Egner, Sebastian et al., (2001i:68010)**
**Sunar, B.** (*with* Koç, Çetin K.) An efficient optimal normal basis type II multiplier. (English summary)
**Tisserand, Arnaud** *see* **Ercegovac, Milos D. et al., 2001e:68016**
**Um, Junhyung** (*with* Kim, Taewhan) An optimal allocation of carry-save-adders in arithmetic circuits. (English summary)
**Wang, Qian[3]** *see* **Ziavras, Sotirios G., (2001c:68011)**
**Yeung, Raymond W.** *see* **Fu, Fang Wei, 2001k:68002**
**Ziavras, Sotirios G.** (*with* Wang, Qian[3]) Robust interprocessor connections for very-high performance. (English summary) (*see* **2001c:68011**)

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**Bach, Eric** (*with* Kiwi, Marcos) Threshold data structures and coding theory. (English summary) **2001e:68037**
**Bělohlávek, Radim** Fuzzy logical bidirectional associative memory. (English summary) **2001d:68186**
**Boute, Raymond T.** Zeroless positional number representation and string ordering. **2001g:11010**
**Comellas, Francesc** (*with* Ozón, Javier; Peters, Joseph G.) Deterministic small-world communication networks. (English summary) **2001i:68015**
**Dierks, Henning** PLC-automata: a new class of implementable real-time automata. (English summary) **2001m:68115**
**Douglas, Craig C.** (*with* Hu, Jonathan; Kowarschik, Markus; Rüde, Ulrich; Weiß, Christian) Cache optimization for structured and unstructured grid multigrid. (English summary) **2001a:65114**
**Eisenbeis, Ch.** *see* **de Werra, D. et al., 2001c:68105**
**Gollmann, Dieter** Dual bases and bit-serial multiplication in $\mathbf{F}_{q^n}$. (English summary) **2001m:94046**
**Hu, Jonathan** *see* **Douglas, Craig C. et al., 2001a:65114**
**Kiwi, Marcos** (*with* Magniez, Frédéric; Santha, Miklos) Approximate testing with relative error. (English summary) **2001g:65181**
— *see also* **Bach, Eric, 2001e:68037**
**Kowarschik, Markus** *see* **Douglas, Craig C. et al., 2001a:65114**
**Lelait, S.** *see* **de Werra, D. et al., 2001c:68105**
**Magniez, Frédéric** *see* **Kiwi, Marcos et al., 2001g:65181**
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**Mo, Ze Yao** Realistic performance analysis methods for parallel codes. (Chinese. English summary)
**Noskov, V. N.** On diagnostic and adjustment problems for circuits composed of unreliable automata. (Russian. Russian summary) **2001h:94046**
**Nurutdinov, Sh. R.** (*with* Shalagin, S. V.) Minimization of the number of elements of a homogeneous computational structure. (Russian) (*see* **2001m:00015**)
**Olariu, Stephan** (*with* Pinotti, M. Cristina; Zheng, Si-Qing) An optimal hardware-algorithm for sorting using a fixed-size parallel sorting device. (English summary)
**Ozón, Javier** *see* **Comellas, Francesc et al., 2001i:68015**
**Parks, Michael** Number-theoretic test generation for directed rounding. (English summary) **2001e:11124**
**Peters, Joseph G.** *see* **Comellas, Francesc et al., 2001i:68015**
**Pinotti, M. Cristina** *see* **Olariu, Stephan et al.**
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**Santha, Miklos** *see* **Kiwi, Marcos et al., 2001g:65181**
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**de Werra, D.** (*with* Eisenbeis, Ch.; Lelait, S.; Marmol, B.) On a graph-theoretical model for cyclic register allocation. (English summary) **2001c:68105**
**Worsch, Thomas** Cellular automata with dynamically reconfigurable buses. (English summary) **2001e:68130**
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**Zhukov-Emel'yanov, O. D.** On the sign problem in a residue system. (Russian. Russian summary) **2001b:11003**

## 68M10 Network design and communication [see also 68R10, 90B18]

**AboElFotoh, Hosam M.** *see* **Elmallah, Ehab S., 2001m:68007**
**Adler, Micah** (*with* Fich, Faith E.; Goldberg, Leslie Ann; Paterson, M. S.) Tight size bounds for packet headers in narrow meshes. (English summary) (*see* **2001f:68008**)
**Aiello, William** (*with* Kushilevitz, Eyal; Ostrovsky, Rafail; Rosén, Adi) Adaptive packet routing for bursty adversarial traffic. (*see* **2001d:68026**)
**Andrews, Matthew** (*with* Zhang, Lisa) Packet routing with arbitrary end-to-end delay requirements. (English summary) (*see* **2001f:68004**)
— (*with* Zhang, Lisa) Stability results for networks with input and output blocking. (*see* **2001d:68026**)
**(Avreski, D. R.)** *see* **Dependable network computing, 2001a:68013**
**Bar-Noy, Amotz** (*with* Guha, Sudipto; Naor, Joseph; Schieber, Baruch) Multicasting in heterogeneous networks. (*see* **2001d:68026**)
**Calamoneri, Tiziana** (*with* Massini, Annalisa) Optimal three-dimensional layout of interconnection networks. (English summary)
**Chan, Raymond H.** (*with* Ching, Wai Ki) Circulant preconditioners for stochastic automata networks. (English summary) **2001j:68010**
**Chen, Chiuyuan** (*with* Hwang, Frank K.) The minimum distance diagram of double-loop networks. (English summary)
— (*with* Hwang, Frank K.) Equivalent nondegenerate L-shapes of double-loop networks. (English summary) **2001h:68009**
**Chen, Gen-Huey** (*with* Hwang, Shien-Ching; Huang, Hui-Ling; Su, Ming-Yang; Duh, Dyi-Rong) A general broadcasting scheme for recursive networks with complete connection. (English summary)
**Chen, Gui Hai** (*with* Xie, Li[2]; Lau, Francis C. M.; Gu, Qing[2]; Zhou, Neng Fa) The wall mesh. (Chinese. English and Chinese summaries) **2001d:68032**
— (*with* Lau, Francis C. M.; Gu, Qing[2]; Xie, Li[2]) An optimal routing algorithm for shuffle-exchange networks. (Chinese. English and Chinese summaries) **2001m:68005**
**Chen, Tzung-Shi** (*with* Wang, Nen-Chung; Chu, Chih-Ping) Multicast communication in wormhole-routed star graph interconnection networks. (English summary)
**Ching, Wai Ki** *see* **Chan, Raymond H., 2001j:68010**
**Chlebus, Bogdan S.** (*with* Gąsieniec, Leszek; Östlin, Anna; Robson, John Michael) Deterministic radio broadcasting. (English summary) **2001k:68003**
**Chu, Chih-Ping** *see* **Chen, Tzung-Shi et al.**
**Cicerone, Serafino** (*with* Di Stefano, Gabriele; Flammini, Michele) Low-congested interval routing schemes for hypercubelike networks. (English summary) **2001g:68007**
**Cohen, Johanne** (*with* Fraigniaud, Pierre; Mitjana, Margarida) Minimal contention-free matrices with application to multicasting. (English summary) **2001f:68016**
**Cole, Richard J.** (*with* Maggs, Bruce M.; Meyer auf der Heide, Friedhelm; Mitzenmacher, Michael; Richa, Andréa W.; Schröder, Klaus; Sitaraman, Ramesh K.; Vöcking, Berthold) Randomized protocols for low-congestion circuit routing in multistage interconnection networks. (*see* **2001d:68026**)
— (*with* Maggs, Bruce M.; Sitaraman, Ramesh K.) On the benefit of supporting virtual channels in wormhole routers. (English summary) **2001m:68006**
**Comellas, Francesc** (*with* Ozón, Javier; Peters, Joseph G.) Deterministic small-world communication networks. (English summary) **2001i:68015**
**Cowen, Lenore J.** Compact routing with minimum stretch. (English summary) **2001k:68004**
**Das, Sajal K.** (*with* Öhring, Sabine R.; Ibel, Maximilian) Communication aspects of fat-tree-based interconnection networks for multicomputers. (English summary) (*see* **2001c:68011**)
**De Marco, Gianluca** (*with* Pelc, Andrzej) Faster broadcasting in unknown radio networks. (English summary)
**Diks, Krzysztof** (*with* Pelc, Andrzej) Optimal adaptive broadcasting with a bounded fraction of faulty nodes. (English summary) **2001h:68010**
**Dinitz, Yefim** (*with* Moran, Shlomo; Rajsbaum, Sergio) Bit complexity of breaking and achieving symmetry in chains and rings (extended abstract). (English summary) (*see* **2001f:68004**)
**Di Stefano, Gabriele** *see* **Cicerone, Serafino et al., 2001g:68007**
**Dodis, Yevgeniy** (*with* Khanna, Sanjeev) Designing networks with bounded pairwise distance. (English summary) (*see* **2001f:68004**)
**Dolev, Shlomi** (*with* Kranakis, Evangelos; Krizanc, Danny; Peleg, David) Bubbles: adaptive routing scheme for high-speed dynamic networks. (English summary) **2001c:68015**
**Duh, Dyi-Rong** *see* **Chen, Gen-Huey et al.**
**Dündar, Pinar** Stability measures of some static interconnection networks. (English summary)
**Elmallah, Ehab S.** (*with* AboElFotoh, Hosam M.) Enhancing the consecutive cuts bound for network reliability. (English summary) **2001m:68007**
**Erlebach, Thomas** (*with* Jansen, Klaus) Efficient implementation of an optimal greedy algorithm for wavelength assignment in directed tree networks. (English summary) **2001k:68005**
**Fang, Jywe-Fei** (*with* Hsiao, Ju-Yuan; Tang, Chuan Yi) Embedding cycles and meshes onto incomplete hypercubes. (English summary) **2001e:68019**
**Fang, Wei-Chen** (*with* Hsu, Chiun-Chieh) On the fault-tolerant embedding of complete binary trees in the pancake graph interconnection network. (English summary) **2001c:68016**
**Feige, Uriel** Nonmonotonic phenomena in packet routing. (English summary) (*see* **2001f:68004**)
**Fertin, Guillaume** Hierarchical broadcast and gossip networks. (English summary) **2001a:68008**
— On the structure of minimum broadcast digraphs. (English summary) **2001f:68017**
**Fich, Faith E.** *see* **Adler, Micah et al., (2001f:68008)**
**Flammini, Michele** *see* **Cicerone, Serafino et al., 2001g:68007**
**Fraigniaud, Pierre** *see* **Cohen, Johanne et al., 2001f:68016**
**Fujita, Satoshi** Neighborhood information dissemination in the star graph. (English summary)
**Gambin, Anna** (*with* Malinowski, Adam) Randomized gossiping by packets in faulty networks. (English summary) (*see* **2001d:68023**)
**Gąsieniec, Leszek** *see* **Chlebus, Bogdan S. et al., 2001k:68003**
**Gavoille, Cyril** A survey on interval routing. (English summary) **2001e:68020**
**Gibbons, A. M.** *see* **Ravindran, Somasundaram et al., 2001i:68018**
**Gilbert, Anna Catherine** Multiscale analysis and data networks. (English summary)
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## 68M12 Network protocols

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## 68M14 Distributed systems

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**Zachary, Stan** Dynamics of large uncontrolled loss networks. (English summary) **2001e:60190**
**Zhang, Jiawei** *see* **Xing, Wenxun, 2001c:90030**
**Zhang, Rachel Q.** *see* **Aha, Hyun-Soo et al., 2001b:90033**
**Zimniak, Arkadiusz** *see* **Józefowska, Joanna, 2001e:90025**
**Zinder, Yakov** *see* **Brucker, Peter et al., 2001m:90037**

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**Special Issue:**
**Project scheduling** ★ Special issue on project scheduling. **2001h:90006**

## 68M99 None of the above, but in this section

**Aiello, William** (*with* Busch, Costas; Herlihy, Maurice; Mavronicolas, Marios; Shavit, Nir; Touitou, Dan) Supporting increment and decrement operations in balancing networks. (English summary) **2001m:68018**
**Busch, Costas** *see* **Aiello, William et al., 2001m:68018**
**Herlihy, Maurice** *see* **Aiello, William et al., 2001m:68018**
**Khanna, Sanjeev** (*with* Liberatore, Vincenzo) On broadcast disk paging. (*see* **2001d:68026**)
**Liberatore, Vincenzo** *see* **Khanna, Sanjeev, (2001d:68026)**
**Mavronicolas, Marios** *see* **Aiello, William et al., 2001m:68018**
**Shavit, Nir** *see* **Aiello, William et al., 2001m:68018**
**Touitou, Dan** *see* **Aiello, William et al., 2001m:68018**

Items with secondary classifications in 68M99

**Kaneko, Yoshihiro** An optimal file transfer on a directed path network with step arc costs. (English summary) **2001m:68065**

# 68Nxx Software

Items with secondary classifications in 68Nxx

**(Thomas, Wolfgang)** *see* **Foundations of software science and computation structures, 2001e:68009**

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**Amsterdam** ★ Foundations of software science and computation structures. **2001e:68009**
**Conference:**
**Foundations of Software Science and Computation Structures** ★ Foundations of software science and computation structures. **2001e:68009**
**Theory and Practice of Software** ★ Foundations of software science and computation structures. **2001e:68009**
**Foundations of software science and computation structures** ★ Foundations of software science and computation structures. **2001e:68009**
**Lecture Notes in Computer Science** ★ Foundations of software science and computation structures. **2001e:68009**

## 68N01 General

**Kapitonova, Yu. V.** (*with* Letichevskiĭ, Aleksandr Adol'fovich; Volkov, V. A.) Deductive methods for an algebraic programming system. (Russian. English and Ukrainian summaries)
**Letichevskiĭ, Aleksandr Adol'fovich** *see* **Kapitonova, Yu. V. et al.**
**Red'ko, V. N.** Foundations of programming. (Russian. English and Ukrainian summaries)
**Volkov, V. A.** *see* **Kapitonova, Yu. V. et al.**

Items with secondary classifications in 68N01

**Backhouse, Roland** (*with* Hoogendijk, Paul) Final dialgebras: from categories to allegories. (English summary) **2001e:18008**
— (*with* Fokkinga, Maarten) The associativity of equivalence and the Towers of Hanoi problem. (English summary) (*see* **2001i:68012**)
**Fokkinga, Maarten** *see* **Backhouse, Roland, (2001i:68012)**
**Hoogendijk, Paul** *see* **Backhouse, Roland, 2001e:18008**
**Sabelfeld, V.** The tree equivalence of linear recursion schemes. (English summary) **2001b:68082**
**Stathis, Kostas** A game-based architecture for developing interactive components in computational logic. (English summary) (*see* **2001f:68012**)

## 68N15 Programming languages

**Abramsky, Samson** (*with* McCusker, Guy) Full abstraction for Idealized Algol with passive expressions. (English summary) **2001c:68023**
**Berry, Gérard** The foundations of Esterel. (*see* **2001c:68009**)
**Birkedal, Lars** *see* **Tofte, Mads, (2001c:68009)**
**Birov, Dimit"r** *see* **Todorova, Magdalina, (2001a:00036)**
**Cortesi, Agostino** (*with* Le Charlier, Baudouin; Van Hentenryck, Pascal) Combinations of abstract domains for logic programming: open product and generic pattern construction. (English summary) **2001j:68014**
**Duggan, Dominic** Finite subtype inference with explicit polymorphism. (English summary) **2001m:68019**
**Hehner, Eric C. R.** Variables and scopes considered formally. (English summary)
**Jayaraman, Bharat** *see* **Osorio, Mauricio et al., 2001e:68027**
**Le Charlier, Baudouin** *see* **Cortesi, Agostino et al., 2001j:68014**
**Lévy, Jean-Jacques** (*with* Maranget, Luc) Explicit substitutions and programming languages. (English summary) (*see* **2001d:68010**)
**Maranget, Luc** *see* **Lévy, Jean-Jacques, (2001d:68010)**
**McCusker, Guy** *see* **Abramsky, Samson, 2001c:68023**
**Ohori, Atsushi** Type-directed specialization of polymorphism. (English summary) **2001a:68015**
**Osorio, Mauricio** (*with* Jayaraman, Bharat; Plaisted, David A.) Theory of partial-order programming. (English summary) **2001e:68027**
**Pierce, Benjamin C.** (*with* Turner, David N.) Pict: a programming language based on the pi-calculus. (*see* **2001c:68009**)
**Plaisted, David A.** *see* **Osorio, Mauricio et al., 2001e:68027**
**Pottier, François** A versatile constraint-based type inference system. (English summary) **2001m:68020**
**Todorova, Magdalina** (*with* Birov, Dimit"r) An algorithm for deriving types and its realization in the language W. (Bulgarian. English and Russian summaries) (*see* **2001a:00036**)
**Tofte, Mads** (*with* Birkedal, Lars) Unification and polymorphism in region inference. (*see* **2001c:68009**)
**Turner, David N.** *see* **Pierce, Benjamin C., (2001c:68009)**
**Uvarov, D. L.** An optimal algorithm for the cleaning of regular schemes. (Russian. Russian summary)
**Van Hentenryck, Pascal** *see* **Cortesi, Agostino et al., 2001j:68014**

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**Barthe, Gilles** (*with* van Raamsdonk, Femke) Constructor subtyping in the calculus of inductive constructions. (English summary) (*see* **2001f:68010**)
**Ben-Amram, Amir M.** (*with* Jones, Neil D.) Computational complexity via programming languages: constant factors do matter. (English summary) **2001e:68068**
**Blažević, Mario** (*with* Budimac, Zoran; Ivanović, Mirjana) Formal specification of a graph rewriting system with environments. (English summary) (*see* **2001i:00035**)
**Budimac, Zoran** *see* **Blažević, Mario et al., (2001i:00035)**
**De Giacomo, Giuseppe** (*with* Lespérance, Yves; Levesque, Hector J.) ConGolog, a concurrent programming language based on the situation calculus. (English summary)
**Ehrhard, Thomas** A relative PCF-definability result for strongly stable functions and some corollaries. (English summary) **2001c:03018**
**(Gergatsoulis, Manolis)** *see* **Intensional programming, 2001m:68003**

**Ghica, Dan R.** (*with* McCusker, Guy) Reasoning about Idealized ALGOL using regular languages. (English summary) (*see* **2001f:68008**)
**(Gumb, Raymond D.)** *see* **Errata: "Definitions in nonstrict positive free logic"**
**Hyland, J. Martin E.** (*with* Schalk, Andrea) Abstract games for linear logic (extended abstract). (English summary) (*see* **2001d:68006**)
**Igarashi, Atsushi** (*with* Kobayashi, Naoki) Type reconstruction for linear $\pi$-calculus with I/O subtyping. (English summary) **2001d:68166**
**Indermark, Klaus** Semantik rekursiver Funktionsdefinitionen mit Striktheitsinformation. (German summary) [Semantics of recursive function definitions with strictness information] (*see* **2001d:68004**)
**Ivanović, Mirjana** *see* **Blažević, Mario et al.**, (**2001i:00035**)
**Jones, Neil D.** *see* **Ben-Amram, Amir M.**, **2001e:68068**
**Kashlakova, Elena** *see* **Melnikov, B. F.**, **2001m:68101**
**Kobayashi, Naoki** *see* **Igarashi, Atsushi**, **2001d:68166**
**(Lambert, Karel)** *see* **Errata: "Definitions in nonstrict positive free logic"**
**Lespérance, Yves** *see* **De Giacomo, Giuseppe et al.**
**Levesque, Hector J.** *see* **De Giacomo, Giuseppe et al.**
**Luo, Zhaohui** (*with* Solov′ev, S. V.) Dependent coercions. (English summary) (*see* **2001d:68006**)
**McCusker, Guy** *see* **Ghica, Dan R.**, (**2001f:68008**)
**Melnikov, B. F.** (*with* Kashlakova, Elena) Some grammatical structures of programming languages as simple bracketed languages. (English and Lithuanian summaries) **2001m:68101**
**van Raamsdonk, Femke** *see* **Barthe, Gilles**, (**2001f:68010**)
**Röckl, Christine** (*with* Sangiorgi, Davide) A $\pi$-calculus process semantics of concurrent idealised ALGOL. (English summary) (*see* **2001e:68009**)
**(Rondogiannis, Panos)** *see* **Intensional programming**, **2001m:68003**
**Sangiorgi, Davide** *see* **Röckl, Christine**, (**2001e:68009**)
**Schalk, Andrea** *see* **Hyland, J. Martin E.**, (**2001d:68006**)
**Solov′ev, S. V.** *see* **Luo, Zhaohui**, (**2001d:68006**)
**Spreen, Dieter** On functions preserving levels of approximation: a refined model construction for various lambda calculi. (English summary) **2001a:03032**
**Wehr, Martin** Higher dimensional syntax. (English summary) **2001i:68107**
**Zhou, Jianyang** Introduction to the constraint language NCL. (English summary)

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**Athens** ★ Intensional programming. II. **2001m:68003**
**Errata:**
**"Definitions in nonstrict positive free logic"** Errata: "Definitions in nonstrict positive free logic" [Modern Logic **7** (1997), no. 1, 25–55; MR 98c:03073] by R. D. Gumb and K. Lambert.
**Intensional programming** ★ Intensional programming. II. **2001m:68003**
**Symposium:**
**Languages for Intensional Programming** ★ Intensional programming. II. **2001m:68003**

## 68N17 Logic programming

**Abo-Zaed, Muhamed** *see* **Heaton, A. J. et al.**, **2001c:68026**
**Andreoli, Jean-Marc** Focussing and proof construction. (English summary) **2001m:68021**
**Antoniou, Grigoris** (*with* Maher, M. J.; Billington, David; Governatori, Guido) A comparison of sceptical NAF-free logic programming approaches. (English summary) (*see* **2001d:68017**)
**Arruabarrena, R.** (*with* Lucio, P.; Navarro, Marisa) A strong logic programming view for static embedded implications. (English summary) (*see* **2001c:68009**)
**Asker, Lars** *see* **Boström, Henrik**, (**2001b:68007**)
**Badea, Liviu** (*with* Stanciu, Monica) Refinement operators can be (weakly) perfect. (English summary) (*see* **2001b:68007**)
**Baleva, Vessela** A semantics of logic programs without searching. (English summary) **2001g:68011**
**Ben-Eliyahu-Zohary, Rachel** (*with* Palopoli, Luigi; Zemlyanker, Victoria) More on tractable disjunctive Datalog. (English summary) **2001j:68015**
**Billington, David** *see* **Antoniou, Grigoris et al.**, (**2001d:68017**)
**Bossi, Annalisa** (*with* Etalle, Sandro; Rossi, Sabina) Properties of input-consuming derivations. (English summary) **2001g:68012**
**Boström, Henrik** (*with* Asker, Lars) Combining divide-and-conquer and separate-and-conquer for efficient and effective rule induction. (English summary) (*see* **2001b:68007**)
**Brewka, Gerhard** Logic programs with context-dependent preferences. **2001k:68010**
**Bruynooghe, Maurice** (*with* Vandecasteele, Henk; de Waal, D. Andre; Denecker, Marc) Detecting unsolvable queries for definite logic programs. (English summary) **2001c:68024**
**Cao, Tru H.** Annotated fuzzy logic programs. (English summary) **2001a:68016**
**Cenzer, Douglas** (*with* Remmel, Jeffrey B.; Vanderbilt, Amy) Locally determined logic programs. (English summary) (*see* **2001d:68017**)
**Chen, Rong** (*with* Jiang, Yun Fei) Extending the argumentation-theoretical foundation for abductive logic programming. (Chinese. English and Chinese summaries)
— (*with* Jiang, Yun Fei) A new argumentation framework and its application. (Chinese. English and Chinese summaries)
**Codish, Michael** *see* **Heaton, A. J. et al.**, **2001c:68026**
**Comini, Marco** (*with* Gori, Roberta; Levi, Giorgio; Volpe, Paolo) Abstract interpretation based verification of logic programs. (English summary) **2001h:68020**
**Crolard, Tristan** A confluent $\lambda$-calculus with a catch/throw mechanism. (English summary) **2001b:68019**
**Damásio, Carlos Viegas** (*with* Pereira, Luís Moniz; Swift, Terrance) Coherent well-founded annotated logic programs. (English summary) (*see* **2001d:68017**)
**Dantsin, E. Ya.** (*with* Voronkov, Andrei) A nondeterministic polynomial-time unification algorithm for bags, sets and trees. (English summary) (*see* **2001c:68009**)
**Denecker, Marc** *see* **Bruynooghe, Maurice et al.**, **2001c:68024**
**De Raedt, Luc** *see* **Nienhuys-Cheng, Shan-Hwei et al.**, (**2001b:68007**) *and* **Ramon, Jan**, (**2001b:68007**)
**Dershowitz, Nachum** (*with* Lindenstrauss, Naomi; Sagiv, Yehoshua; Serebrenik, Alexander) Automatic termination analysis of programs containing arithmetic predicates. (English summary) **2001h:68021**
**De Schreye, Danny** *see* **Vanhoof, Wim et al.**, **2001c:68030**
**De Vos, Marina** (*with* Vermeir, Dirk) On the role of negation in choice logic programs. (English summary) (*see* **2001d:68017**)
**Diaconescu, Răzvan** Category-based constraint logic. (English summary) **2001d:68048**
**Dovier, Agostino** (*with* Pontelli, Enrico; Rossi, Gianfranco) A necessary condition for constructive negation in constraint logic programming. (English summary) **2001d:68049**
**Ducassé, Mireille** *see* **Jahier, Erwan et al.**
**Ebrahim, Rafee** Fuzzy logic programming. (English summary) **2001j:68016**
**Elbl, Birgit** A non-definability result for a predicational language with the usual control. (English summary)
**Engelfriet, Joeri** (*with* Herre, Heinrich) Stable generated models, partial temporal logic and disjunctive defaults. (English summary) **2001c:68025**
**Erdem, Esra** (*with* Lifschitz, Vladimir) Transformations of logic programs related to causality and planning. (English summary) (*see* **2001d:68017**)
**Etalle, Sandro** *see* **Bossi, Annalisa et al.**, **2001g:68012**
**Flesca, Sergio** (*with* Greco, Sergio) Declarative semantics for active rules. (English summary) **2001k:68011**
**Frisch, Alan M.** Sorted downward refinement: building background knowledge into a refinement operator for inductive logic programming. (English summary) (*see* **2001b:68007**)
**Gabbay, Dov M.** (*with* Giordano, Laura; Martelli, Alberto; Olivetti, Nicola; Sapino, M. L.) Conditional reasoning in logic programming. (English summary) **2001d:68050**
**Giordano, Laura** *see* **Gabbay, Dov M. et al.**, **2001d:68050**
**Goebel, Randy** *see* **You, Jia-Huai et al.**, **2001d:68055**
**Gori, Roberta** *see* **Comini, Marco et al.**, **2001h:68020**
**Governatori, Guido** *see* **Antoniou, Grigoris et al.**, (**2001d:68017**)
**Greco, Sergio** Minimal founded semantics for disjunctive logic programming. (English summary) (*see* **2001d:68017**)
— (*with* Zaniolo, Carlo) Greedy algorithms in Datalog. (English summary)
— *see also* **Flesca, Sergio**, **2001k:68011**
**Guo, Qing** *see* **Nie, Xumin**
**Harland, James A.** (*with* Pym, David J.; Winikoff, Michael) Forward and backward chaining in linear logic (extended abstract). (English summary) (*see* **2001i:68005**)
**Heaton, A. J.** (*with* Abo-Zaed, Muhamed; Codish, Michael; King, Andrew Malcolm) A simple polynomial groundness analysis for logic programs. (English summary) **2001c:68026**
**Hernández-Orallo, J.** (*with* Ramírez-Quintana, M. J.) A strong complete schema for inductive functional logic programming. (English summary) (*see* **2001b:68007**)
**Herre, Heinrich** *see* **Engelfriet, Joeri**, **2001c:68025**
**Hill, Patricia M.** *see* **Smaus, Jan-Georg et al.**
**Hirata, Kouichi** Flattening and implication. (English summary) **2001h:68022**
**Hitzler, Pascal** (*with* Seda, Anthony Karel) Characterizations of classes of programs by three-valued operators. (English summary) (*see* **2001d:68017**)
— (*with* Seda, Anthony Karel) Acceptable programs revisited. (English summary) **2001h:68023**
— *see also* **Seda, Anthony Karel**, **2001a:68017**
**Howe, Jacob M.** (*with* King, Andrew Malcolm) Abstracting numeric constraints with Boolean functions. (English summary) **2001c:68027**
**Inoue, Katsumi[2]** *see* **Sakama, Chiaki**, **2001d:68053**; **2001g:68015** *and* (**2001d:68017**)
**Iwayama, Noboru** (*with* Satoh, Ken) Computing abduction by using TMS with top-down expectation. (English summary) **2001c:68028**
**Jahier, Erwan** (*with* Ducassé, Mireille; Ridoux, Olivier) Specifying Byrd's box model with a continuation semantics. (English summary)
**Jiang, Yun Fei** *see* **Chen, Rong**
**Kakas, Antonios C.** (*with* Michael, A.; Mourlas, C.) ACLP: abductive constraint logic programming. (English summary) **2001c:68029**
**Kern-Isberner, Gabriele** *see* **Lukasiewicz, Thomas**, (**2001b:68009**)
**Khan, Khalid** *see* **Parson, Rupert et al.**, (**2001b:68007**)
**King, Andrew Malcolm** Pair-sharing over rational trees. (English summary) **2001h:68024**
— *see also* **Heaton, A. J. et al.**, **2001c:68026**; **Howe, Jacob M.**, **2001c:68027** *and* **Smaus, Jan-Georg et al.**
**Kondo, Michiro** Axiomatization of the theory of bilattices. (English summary) (*see* **2001b:20002**)
**Krishna Rao, M. R. K.** Some classes of Prolog programs inferable from positive data. (English summary) **2001e:68028**
**Laenens, Els** (*with* Vermeir, Dirk) A universal fixpoint semantics for ordered logic. (English summary) **2001g:68013**
**Leone, Nicola** (*with* Perri, Simona; Rullo, Pasquale) Local search techniques for disjunctive logic programs. (English summary) (*see* **2001e:68002**)
**Levi, Giorgio** *see* **Comini, Marco et al.**, **2001h:68020**
**Lifschitz, Vladimir** (*with* Turner, Hudson) Representing transition systems by logic programs. (English summary) (*see* **2001d:68017**)
— *see also* **Erdem, Esra**, (**2001d:68017**)
**Lindenstrauss, Naomi** *see* **Dershowitz, Nachum et al.**, **2001h:68021**
**Loyer, Yann** (*with* Spyratos, Nicolas; Stamate, Daniel) Computing and comparing semantics of programs in four-valued logics. (English summary) **2001j:68017**
**Lucio, P.** *see* **Arruabarrena, R. et al.**, (**2001e:68009**)
**Lukasiewicz, Thomas** Many-valued disjunctive logic programs with probabilistic semantics. (English summary) (*see* **2001d:68017**)
— (*with* Kern-Isberner, Gabriele) Probabilistic logic programming under maximum entropy. (English summary) (*see* **2001b:68009**)
**Maher, M. J.** *see* **Antoniou, Grigoris et al.**, (**2001d:68017**)
**Martelli, Alberto** *see* **Gabbay, Dov M. et al.**, **2001d:68050**
**Martens, Bern** *see* **Vanhoof, Wim et al.**, **2001c:68030**
**Martin, Eric** (*with* Sharma, Arun K.) On sufficient conditions for learnability of logic programs from positive data. (English summary) (*see* **2001b:68007**)
**Mateis, Cristinel** Extending disjunctive logic programming by T-norms. (English

summary) (*see* **2001d:68017**)
— Quantitative disjunctive logic programming: semantics and computation. (English summary) **2001i:68026**
**Michael, A.** *see* **Kakas, Antonios C. et al., 2001c:68029**
**Midelfart, Herman** A bounded search space of clausal theories. (English summary) (*see* **2001b:68007**)
**Mourlas, C.** *see* **Kakas, Antonios C. et al., 2001c:68029**
**Muggleton, Stephen** *see* **Parson, Rupert et al., (2001b:68007)**
**Nantajeewarawat, Ekawit** (*with* Wuwongse, Vilas) Defeasible inheritance through specialization. (English summary)
**Navarro, Marisa** *see* **Arruabarrena, R. et al., (2001e:68009)**
**Nguyen, Linh Anh** Constructing the least models for positive modal logic programs. (English summary) **2001i:68027**
**Nie, Xumin** (*with* Guo, Qing) Renaming a set of non-Horn clauses. (English summary)
**Niemelä, Ilkka** (*with* Simons, Patrik; Soininen, Timo) Stable model semantics of weight constraint rules. (English summary) (*see* **2001d:68017**)
**Nienhuys-Cheng, Shan-Hwei** (*with* Van Laer, Wim; Ramon, Jan; De Raedt, Luc) Generalizing refinement operators to learn prenex conjunctive normal forms. (English summary) (*see* **2001b:68007**)
**Nock, Richard** Complexity in the case against accuracy: when building one function-free Horn clause is as hard as any. (English summary) (*see* **2001f:68006**)
**Olivetti, Nicola** *see* **Gabbay, Dov M. et al., 2001d:68050**
**Pacini, Giuliano** (*with* Sessa, Maria I.) Loop checking in SLD-derivations by well-quasi-ordering of goals. (English summary) **2001b:68020**
**Palopoli, Luigi** *see* **Ben-Eliyahu-Zohary, Rachel et al., 2001j:68015**
**Parson, Rupert** (*with* Khan, Khalid; Muggleton, Stephen) Theory recovery. (English summary) (*see* **2001b:68007**)
**Pearce, David** From here to there: stable negation in logic programming. (English summary) **2001g:68014**
**Pedreschi, Dino** (*with* Ruggieri, Salvatore) On logic programs that do not fail. (English summary) **2001h:68025**
**Pereira, Luís Moniz** *see* **Damásio, Carlos Viegas et al., (2001d:68017)**
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**Pontelli, Enrico** *see* **Dovier, Agostino et al., 2001d:68049**
**Poole, David Lynton** Abducing through negation as failure: stable models within the independent choice logic. (English summary) **2001d:68051**
**Pym, David J.** *see* **Harland, James A. et al., (2001i:68005)**
**Ramírez-Quintana, M. J.** *see* **Hernández-Orallo, J., (2001b:68007)**
**Ramon, Jan** (*with* De Raedt, Luc) Instance based function learning. (English summary) (*see* **2001b:68007**)
— *see also* **Nienhuys-Cheng, Shan-Hwei et al., (2001b:68007)**
**Remmel, Jeffrey B.** *see* **Cenzer, Douglas et al., (2001d:68017)**
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**Rondogiannis, Panos** Stratified negation in temporal logic programming and the cycle-sum test. (English summary) **2001m:68022**
**Rossi, Gianfranco** *see* **Dovier, Agostino et al., 2001d:68049**
**Rossi, Sabina** *see* **Bossi, Annalisa et al., 2001g:68012**
**Ruggieri, Salvatore** Decidability of logic program semantics and applications to testing. (English summary) **2001f:68020**
— ∃-universal termination of logic programs. (English summary) **2001m:68023**
— *see also* **Pedreschi, Dino, 2001h:68025**
**Rullo, Pasquale** *see* **Leone, Nicola et al., (2001e:68002)**
**Sadri, Fariba** (*with* Toni, Francesca) Abduction with negation as failure for active and reactive rules. (English summary) (*see* **2001e:68002**)
**Sagiv, Yehoshua** *see* **Dershowitz, Nachum et al., 2001h:68021**
**Sagonas, Konstantinos** (*with* Swift, Terrance; Warren, David S.) An abstract machine for efficiently computing queries to well-founded models. (English summary) **2001d:68052**
— (*with* Swift, Terrance; Warren, David S.) The limits of fixed-order computation. (English summary) **2001m:68024**
**Sakama, Chiaki** Some properties of inverse resolution in normal logic programs. (English summary) (*see* **2001b:68007**)
— (*with* Inoue, Katsumi[2]) Updating extended logic programs through abduction. (English summary) (*see* **2001d:68017**)
— (*with* Inoue, Katsumi[2]) Prioritized logic programming and its application to commonsense reasoning. (English summary) **2001g:68015**
— (*with* Inoue, Katsumi[2]) Abductive logic programming and disjunctive logic programming: their relationship and transferability. (English summary) **2001d:68053**
**Sapino, M. L.** *see* **Gabbay, Dov M. et al., 2001d:68050**
**Sasaki, Yutaka** Induction of logic programs based on $\psi$-terms. (English summary) (*see* **2001f:68006**)
**Satoh, Ken** *see* **Iwayama, Noboru, 2001c:68028**
**Seda, Anthony Karel** (*with* Hitzler, Pascal) Topology and iterates in computational logic. (English summary) **2001a:68017**
— *see also* **Hitzler, Pascal, 2001h:68023** *and* **(2001d:68017)**
**Serebrenik, Alexander** *see* **Dershowitz, Nachum et al., 2001h:68021**
**Seres, Silvija** (*with* Spivey, J. M.) Functional reading of logic programs. (English summary) (*see* **2001i:68011**)
**Sessa, Maria I.** *see* **Pacini, Giuliano, 2001b:68020**
**Sharma, Arun K.** *see* **Martin, Eric, (2001b:68007)**
**Shen, Yi-Dong** (*with* Yuan, Li Yan; You, Jia-Huai; Zhou, Neng Fa) Linear tabulated resolution for the well-founded semantics. (English summary) (*see* **2001d:68017**)
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**Simons, Patrik** Extending the stable model semantics with more expressive rules. (English summary) (*see* **2001d:68017**)
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**Smaus, Jan-Georg** (*with* Hill, Patricia M.; King, Andrew Malcolm) Verifying termination and error-freedom of logic programs with block declarations. (English summary)
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**Catania, Barbara** *see* **Bertino, Elisa et al.**
**Cervesato, Iliano** (*with* Hodas, Joshua S.; Pfenning, Frank) Efficient resource management for linear logic proof search. (English summary) **2001b:03063**
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**Bled** ★ Inductive logic programming. **2001b:68007**
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  **Logic Programming and Nonmonotonic Reasoning** ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
**El Paso, TX** ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
**Inductive logic programming** ★ Inductive logic programming. **2001b:68007**
**Intensional programming** ★ Intensional programming. II. **2001m:68003**
**Kyoto** ★ Special issue on functional and logic programming. Part 1. **2001i:68013**
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— ★ Inductive logic programming. **2001b:68007**
— ★ Logic programming and nonmonotonic reasoning. **2001d:68017**
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**Special Issue:**
  **Abductive logic programming** ★ Abductive logic programming. **2001b:68002**
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  **Verification of Logic Programs** ★ Workshop on Verification of Logic Programs. ICLP'99: International Conference on Logic Programming. **2001e:68015**

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**Pinto, Jorge Sousa** Sequential and concurrent abstract machines for interaction nets. (English summary) (*see* **2001f:68010**)
**Pitts, Andrew M.** Parametric polymorphism and operational equivalence. (English summary) **2001e:68033**
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**Ríos, Alejandro** *see* **Kamareddine, Fairouz, 2001d:68057**
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**Sannella, Donald** *see* **Honsell, Furio et al., (2001f:68010)**
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**Taha, Walid** *see* **Calcagno, Cristiano et al., (2001f:68008)**
**Tarjan, Robert E.** *see* **Kaplan, Haim, 2001j:68020**
**Tarlecki, Andrzej** *see* **Honsell, Furio et al., (2001f:68010)**
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**Tyszkiewicz, Jerzy** *see* **Moczurad, M. et al., 2001e:68032**
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**Barendsen, Erik** *see* **Geuvers, Herman, 2001k:03026**
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— (*with* Sørensen, Morten Heine B.) Domain-free pure type systems. (English summary) **2001m:03030**
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**Berardi, Stefano** (*with* Berline, C.) Building continuous webbed models for system $F$. (English summary) (*see* **2001i:68003**)
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**Birkedal, Lars** ★ Developing theories of types and computability via realizability. (English summary) **2001k:03001**
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**Duggan, Dominic** Finite subtype inference with explicit polymorphism. (English summary) **2001m:68019**
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**Geuvers, Herman** (*with* Barendsen, Erik) Some logical and syntactical observations concerning the first-order dependent type system $\lambda P$. (English summary) **2001k:03026**
**Gibbons, Jeremy** Generic downwards accumulations. (English summary) (*see* **2001a:68005**)
**Giesl, Jürgen** Induction proofs with partial functions. (English summary) **2001k:03020**
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**(Gordon, Andrew D.)** *see* **HOOTS'99: higher order operational techniques in semantics, 2001d:68014**
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**Guillaume, Bruno** The $\lambda s_e$-calculus does not preserve strong normalisation. (English summary) **2001j:03024**
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**(Hill, Patricia M.)** *see* **Logical formalisms for program composition, 2001f:68012**
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**Kameyama, Yukiyoshi** *see* **Taha, Azza A. et al., 2001m:03036**
**Kesner, Delia** Confluence of extensional and non-extensional $\lambda$-calculi with explicit substitutions. (English summary) **2001m:03034**
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**Khasidashvili, Zurab** (*with* Piperno, Adolfo) A syntactical analysis of normalization. (English summary) **2001f:03035**
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**Krishna Rao, M. R. K.** Some characteristics of strong innermost normalization. (English summary) **2001c:68079**
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**de'Liguoro, Ugo** *see* **Dezani-Ciancaglini, Mariangiola et al., 2001e:03033**
**Maietti, Maria Emilia** (*with* de Paiva, V. C. V.; Ritter, Eike) Categorical models for intuitionistic and linear type theory. (English summary) **2001i:03131**
**Maranget, Luc** *see* **Lévy, Jean-Jacques, (2001d:68010)**
**McCusker, Guy** Games and full abstraction for FPC. (English summary) **2001j:68078**
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**Naumov, Pavel** *see* **Constable, Robert L. et al., 2001k:68066**
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**Ogata, Ichiro** Constructive classical logic as CPS-calculus. (English summary) **2001e:03098**
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**Qian, Yuechen** *see* **Song, Fangmin et al., 2001f:03036**
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**Ríos, Alejandro** *see* **Kamareddine, Fairouz et al., 2001a:03030**
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**Roversi, Luca** Light affine logic as a programming language: a first contribution. (English summary) **2001e:03107**
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**Salibra, Antonino** On the algebraic models of lambda calculus. (English summary) **2001i:03031**
**Sangiorgi, Davide** Lazy functions and mobile processes. **2001d:68172**
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**Schubert, Aleksy** Type inference for first-order logic. (English summary) **2001i:03032**
**Schulz, Holger** Type two theory of effectivity and real PCF. (English summary) **2001k:03140**
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**Stehr, Mark-Oliver** CINNI—a generic calculus of explicit substitutions and its application to $\lambda$-, $\sigma$- and $\pi$-calculi. (English summary) (*see* **2001i:68004**)
**(Stirling, Colin)** *see* **Proof, language, and interaction, 2001c:68009**
**Subrahmanyam, Ramesh** *see* **Riecke, Jon G., 2001a:03031** *and* **Dougherty, Daniel J., 2001e:03034**
**Taha, Azza A.** (*with* Sato, Masahiko; Kameyama, Yukiyoshi) A type-free context calculus. (English summary) **2001m:03036**
**Takeuti, Izumi** Pruning terms for principal type assignment. (English summary) **2001e:03036**
**(Tofte, Mads)** *see* **Proof, language, and interaction, 2001c:68009**
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**Turner, David N.** (*with* Wadler, Philip) Operational interpretations of linear logic. (English summary) **2001b:03065**
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**Valarcher, Pierre** Intensional semantics of system T of Gödel. (English summary) **2001m:03037**
**Valentini, Silvio** *see* **Capretta, Venanzio, 2001a:03028**
**Vene, Varmo** ★ Categorical programming with inductive and coinductive types. (Estonian summary) **2001f:68094**
**de Vries, Fer-Jan** *see* **Dezani-Ciancaglini, Mariangiola et al., 2001j:03023**
**Wadler, Philip** *see* **Turner, David N., 2001b:03065**
**Wehr, Martin** Higher dimensional syntax. (English summary) **2001i:68107**
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**Festschrift:**
**Milner, Robin** ★ Proof, language, and interaction. **2001c:68009**
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**Kyoto** ★ Special issue on functional and logic programming. Part 1. **2001i:68013**
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**Paris** ★ HOOTS'99: higher order operational techniques in semantics. **2001d:68014**
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## 68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)

**Alagić, Suad** Semantics of temporal classes. (English summary) **2001k:68014**
**Andersson, Niclas** (*with* Fritzson, Peter) Object oriented mathematical modelling and compilation to parallel code. (English summary) (*see* **2001d:00014**)
**de Berg, Mark** *see* **Ferragina, Paolo et al., (2001f:68004)**
**Bono, Viviana** (*with* Bugliesi, Michele; Dezani-Ciancaglini, Mariangiola; Liquori, Luigi) A subtyping for extensible, incomplete objects. (English summary) **2001k:68015**
**Bruce, Kim B.** (*with* Cardelli, Luca; Pierce, Benjamin C.) Comparing object encodings. (English summary) **2001d:68061**
**Bugliesi, Michele** (*with* Delzanno, Giorgio; Liquori, Luigi; Martelli, Maurizio) Object calculi in linear logic. (English summary) **2001j:68022**
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**Cardelli, Luca** *see* **Bruce, Kim B. et al., 2001d:68061**
**Delzanno, Giorgio** *see* **Bugliesi, Michele et al., 2001j:68022**
**Dezani-Ciancaglini, Mariangiola** *see* **Bono, Viviana et al., 2001k:68015**
**Ferragina, Paolo** (*with* Muthukrishnan, S.; de Berg, Mark) Multi-method dispatching: a geometric approach with applications to string matching problems. (English summary) (*see* **2001f:68004**)
**Fritzson, Peter** *see* **Andersson, Niclas, (2001d:00014)**
**Glew, Neal** Object closure conversion. (English summary) (*see* **2001d:68014**)
**Gumirov, V. Sh.** Translation of an object-oriented language of semantic specifications in relational algebra. (Russian. Russian summary)
**Gupta, Gopal** *see* **Pontelli, Enrico et al., (2001b:68010)**
**He, Jifeng** *see* **Hoare, C. A. R., 2001m:68026**
**Hoare, C. A. R.** (*with* He, Jifeng) A trace model for pointers and objects. (English summary) **2001m:68026**
**Liquori, Luigi** *see* **Bugliesi, Michele et al., 2001j:68022** *and* **Bono, Viviana et al., 2001k:68015**
**Martelli, Maurizio** *see* **Bugliesi, Michele et al., 2001j:68022**
**Müller, Martin²** (*with* Nishimura, Susumu) Type inference for first-class messages with feature constraints. (English summary) **2001e:68034**
**Muthukrishnan, S.** *see* **Ferragina, Paolo et al., (2001f:68004)**
**Nishimura, Susumu** *see* **Müller, Martin², 2001e:68034**
**Pierce, Benjamin C.** *see* **Bruce, Kim B. et al., 2001d:68061**
**Poll, Erik** A coalgebraic semantics of subtyping. (English summary) **2001f:68021**
**Pontelli, Enrico** (*with* Ranjan, Desh; Gupta, Gopal) Complexity analysis of late binding in dynamic object-oriented languages. (English summary) (*see* **2001b:68010**)
**Ranjan, Desh** *see* **Pontelli, Enrico et al., (2001b:68010)**
**Tews, Hendrik** Coalgebras for binary methods. (English summary) **2001f:68022**
**Thiemann, Peter** An algebraic foundation for adaptive programming. (English summary) (*see* **2001f:68010**)
**Yurchenko, O. G.** Semantic formalization of an object model of data. (Russian. Russian summary) **2001i:68031**

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**Crole, Roy L.** Encoding FIX in object calculi. (English summary) **2001c:68090**
**Ehrich, Hans-Dieter** Object specification. (*see* **2001g:68068**)
**(Gordon, Andrew D.)** *see* **HOOTS'99: higher order operational techniques in semantics, 2001d:68014**
**Jacobs, Bart** *see* **Rothe, Jan et al., (2001k:68001)**
**Kesner, Delia** (*with* Martínez López, Pablo E.) Explicit substitutions for objects and functions. (English summary) **2001d:68058**
**Laenens, Els** (*with* Vermeir, Dirk) A universal fixpoint semantics for ordered logic. (English summary) **2001g:68013**
**Liu, Xinxin** (*with* Walker, David James) Concurrent objects as mobile processes. (*see* **2001c:68009**)
**Martínez López, Pablo E.** *see* **Kesner, Delia, 2001d:68058**
**Nantajeewarawat, Ekawit** (*with* Wuwongse, Vilas) Defeasible inheritance through specialization. (English summary)
**(Pitts, Andrew M.)** *see* **HOOTS'99: higher order operational techniques in semantics, 2001d:68014**
**Rothe, Jan** (*with* Tews, Hendrik; Jacobs, Bart) The coalgebraic class specification language CCSL. (English summary) (*see* **2001k:68001**)
**Tews, Hendrik** *see* **Rothe, Jan et al., (2001k:68001)**
**Turull Torres, Jose Maria** A hierarchy of unbounded almost rigid classes of finite structures. (English summary) **2001b:03034**
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**Workshop:**
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## 68N20 Compilers and interpreters

**Azero Alcocer, Pablo R.** *see* **Swierstra, S. Doaitse, (2001d:68023)**
**Darte, Alain** On the complexity of loop fusion. (English summary)
**Heldal, Rogardt** (*with* Hughes, R. John M.) Extending a partial evaluator which supports separate compilation. (English summary) (*see* **2001e:68012**)
**Hofmann, Martin** A type system for bounded space and functional in-place update. (English summary) **2001m:68027**
**Hughes, R. John M.** *see* **Heldal, Rogardt, (2001e:68012)**
**Kang, Kyoung-Sun** (*with* Tamura, Naoyuki) A static analysis method for a classical linear logic programming language. (English summary)
**Pottosin, I. V.** On a justification of algorithms for program optimization. (Russian. Russian summary)
**Rodeh, Michael** (*with* Sagiv, Mooly) Finding circular attributes in attribute grammars. (English summary) **2001m:68028**
**Sagiv, Mooly** *see* **Rodeh, Michael, 2001m:68028**
**Sørensen, Morten Heine B.** Convergence of program transformers in the metric space of trees. (English summary) (*see* **2001a:68005**)
**Swierstra, S. Doaitse** (*with* Azero Alcocer, Pablo R.) Fast, error correcting parser combinators: a short tutorial. (*see* **2001d:68023**)
**Tamura, Naoyuki** *see* **Kang, Kyoung-Sun**

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**Bertsch, Eberhard** (*with* Nederhof, Mark-Jan) Regular closure of deterministic languages. (English summary) **2001e:68098**
**Bodei, Chiara** (*with* Degano, Pierpaolo; Nielson, Flemming; Nielson, Hanne Riis) Static analysis of processes for no read-up and no write-down. (English summary) (*see* **2001e:68009**)
**Cortesi, Agostino** (*with* Le Charlier, Baudouin; Van Hentenryck, Pascal) Combinations of abstract domains for logic programming: open product and generic pattern construction. (English summary) **2001j:68014**
**Damiani, Ferruccio** (*with* Giannini, Paola) Automatic useless-code elimination for HOT functional programs. (English summary) **2001m:68025**
**Degano, Pierpaolo** *see* **Bodei, Chiara et al., (2001e:68009)**
**Esparza, Javier** (*with* Knoop, Jens) An automata-theoretic approach to interprocedural data-flow analysis. (English summary) (*see* **2001e:68009**)
**Farach-Colton, Martin** (*with* Liberatore, Vincenzo) On local register allocation. (English summary) **2001d:68235**
**Fecht, Christian** *see* **Seidl, Helmut, 2001b:68085**
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**Gondow, Katsuhiko** (*with* Katayama, Takuya) Attribute grammars as record calculus—a structure-oriented denotational semantics of attribute grammars by using Cardelli's record calculus.
**Goodman, Joshua** Semiring parsing. (English summary) **2001j:68068**
**Katayama, Takuya** *see* **Gondow, Katsuhiko**
**Knoop, Jens** *see* **Esparza, Javier, (2001e:68009)**
**Kolodnitskiĭ, N. M.** (*with* Levitskiĭ, V. G.) Application of the formalism of generative grammars to the analysis of similar languages. (Russian. English and Ukrainian summaries)
**Král, Jaroslav** *see* **Žemlička, Michal, 2001d:68140**
**Le Charlier, Baudouin** *see* **Cortesi, Agostino et al., 2001j:68014**
**Leung, Hing** (*with* Wotschke, Detlef) On the size of parsers and LR($k$)-grammars. (English summary) **2001b:68077**
**Levitskiĭ, V. G.** *see* **Kolodnitskiĭ, N. M.**
**Liberatore, Vincenzo** *see* **Farach-Colton, Martin, 2001d:68235**
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**Marlowe, Thomas J.** *see* **Younis, Mohamed F. et al.**
**Motogna, Simona** *see* **Prejmerean, Vasile**
**Nederhof, Mark-Jan** *see* **Bertsch, Eberhard, 2001e:68098**
**Nielson, Flemming** *see* **Bodei, Chiara et al., (2001e:68009)**
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**Ohori, Atsushi** Type-directed specialization of polymorphism. (English summary) **2001a:68015**
**Papaspyrou, Nikolaos S.** (*with* Maćoš, Dragan) A study of evaluation order semantics in expressions with side effects. (English summary)
**Popovici, A.** (*with* Popovici, D.) Infix and postfix notations. (English summary) **2001e:68106**
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**Seidl, Helmut** (*with* Fecht, Christian) Interprocedural analyses: a comparison. (English summary) **2001b:68085**
**Stoyenko, Alexander D.** *see* **Younis, Mohamed F. et al.**
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**Uvarov, D. L.** An optimal algorithm for the cleaning of regular schemes. (Russian. Russian summary)
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**Younis, Mohamed F.** (*with* Tsai, Grace; Marlowe, Thomas J.; Stoyenko, Alexander D.) Formal verification of compiler transformations for speculative real-time execution. (English summary)
**Žemlička, Michal** (*with* Král, Jaroslav) Run-time extensible deterministic top-down parsing. (English summary) **2001d:68140**

## 68N25 Operating systems

**Irani, Sandy** Page replacement with multi-size pages and applications to Web caching. (*see* **2001d:68025**)
**Kalyanasundaram, Bala** (*with* Pruhs, Kirk R.; Torng, E.) Errata: "A new algorithm for scheduling periodic, real-time tasks" [Algorithmica **4** (1989), no. 4, 209–219; MR 90k:68017] by J. Y.-T. Leung. **2001e:68035**
**(Leung, Joseph Y.-T.)** *see* **Kalyanasundaram, Bala et al., 2001e:68035**
**Li, Sheng Li** (*with* Zheng, Ran; Luo, Yan; Pang, Li Ping) A clock synchronization algorithm for distributed real time systems. (Chinese. English and Chinese summaries)
**Luo, Yan** *see* **Li, Sheng Li et al.**
**Pang, Li Ping** *see* **Li, Sheng Li et al.**
**Pruhs, Kirk R.** *see* **Kalyanasundaram, Bala et al., 2001e:68035**
**Torng, E.** *see* **Kalyanasundaram, Bala et al., 2001e:68035**
**Zheng, Ran** *see* **Li, Sheng Li et al.**

Items with secondary classifications in 68N25

**Amir, Amihood** *see* **Koren, Gilad et al., 2001d:68043**
**Bein, Wolfgang W.** (*with* Fleischer, Rudolf; Larmore, Lawrence L.) Limited bookmark randomized online algorithms for the paging problem. (English summary)
**Dar, Emanuel** *see* **Koren, Gilad et al., 2001d:68043**
**Fleischer, Rudolf** *see* **Bein, Wolfgang W. et al.**
**Hadzilacos, Vassos** *see* **Lo, Wai-Kau, (2001d:68025)**
**Kallahalla, Mahesh** (*with* Varman, Peter J.) Randomized parallel prefetching and buffer management. (English summary) (*see* **2001d:68002**)
**Karlin, Anna R.** (*with* Phillips, Steven J.; Raghavan, Prabhakar) Markov paging. (English summary) **2001e:68200**
**Khanna, Sanjeev** (*with* Liberatore, Vincenzo) On broadcast disk paging. (*see* **2001d:68026**)
**Koren, Gilad** (*with* Dar, Emanuel; Amir, Amihood) The power of migration in multiprocessor scheduling of real-time systems. (English summary) **2001d:68043**
**Larmore, Lawrence L.** *see* **Bein, Wolfgang W. et al.**
**Liberatore, Vincenzo** *see* **Khanna, Sanjeev, (2001d:68026)**
**Lo, Wai-Kau** (*with* Hadzilacos, Vassos) All of us are smarter than any of us: wait-free hierarchies are not robust. (*see* **2001d:68025**)
**Peng, Jia Yin** Fuzzy semaphore codes. (Chinese. English and Chinese summaries)
**Phillips, Steven J.** *see* **Karlin, Anna R. et al., 2001e:68200**
**Raghavan, Prabhakar** *see* **Karlin, Anna R. et al., 2001e:68200**
**Varman, Peter J.** *see* **Kallahalla, Mahesh, (2001d:68002)**
**Young, Neal E.** On-line paging against adversarially biased random inputs. (English summary) **2001h:68170**

## 68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)

**Abbasov, A. M.** (*with* Abdullayeva, R. A.; Karaev, R. A.) Model for design synthesis of adaptive information systems. (English and Azerbaijani summaries)
**Abdullayeva, R. A.** *see* **Abbasov, A. M. et al.**
**Basin, David** (*with* Krieg-Brückner, Bernd) Formalization of the development process. (*see* **2001g:68068**)
**Berghammer, Rudolf** (*with* Hoffmann, Thorsten) Deriving relational programs for computing kernels by reconstructing a proof of Richardson's theorem. (English summary) **2001d:68062**
**Broy, Manfred** A logical basis for modular systems engineering. (English summary) **2001i:68032**
**Hedman, Eric J.** (*with* Kok, Joost N.; Sere, Kaisa) Coordinating action systems. (English summary) **2001c:68033**
**Henriksen, Jesper G.** (*with* Mukund, Madhavan; Narayan Kumar, K.; Thiagarajan, P. S.) On message sequence graphs and finitely generated regular MSC languages. (English summary) (*see* **2001f:68008**)
**Hoffmann, Thorsten** *see* **Berghammer, Rudolf, 2001d:68062**
**Karaev, R. A.** *see* **Abbasov, A. M. et al.**

**Kok, Joost N.** *see* **Hedman, Eric J. et al., 2001c:68033**
**Krieg-Brückner, Bernd** *see* **Basin, David, (2001g:68068)**
**Mukund, Madhavan** *see* **Henriksen, Jesper G. et al., (2001f:68008)**
**Narayan Kumar, K.** *see* **Henriksen, Jesper G. et al., (2001f:68008)**
**Rüthing, Oliver** Code motion in the presence of critical edges without bidirectional data flow analysis. (English summary)
**Sere, Kaisa** *see* **Hedman, Eric J. et al., 2001c:68033**
**Thiagarajan, P. S.** *see* **Henriksen, Jesper G. et al., (2001f:68008)**

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**Anderson, Penny** (*with* Basin, David) Program development schemata as derived rules. (English summary)
**Arora, Anish** *see* **Leal, William, (2001i:68012)**
**Ayed, Rahma Ben** (*with* Desharnais, Jules; Frappier, Marc; Mili, Ali) A calculus of program adaptation and its applications. (English summary) **2001g:68060**
**Basin, David** *see* **Anderson, Penny**
**Białasik, Marcin** *see* **Konikowska, Beata, 2001d:03078**
**Brien, S. M.** (*with* Martin, A. P.) A calculus for schemas in Z. (English summary)
**(Broy, Manfred)** *see* **Calculational system design, 2001d:68005**
**Cortesi, Agostino** (*with* Le Charlier, Baudouin; Van Hentenryck, Pascal) Combinations of abstract domains for logic programming: open product and generic pattern construction. (English summary) **2001j:68014**
**Desharnais, Jules** *see* **Ayed, Rahma Ben et al., 2001g:68060**
**Ehrig, Hartmut** (*with* Kreowski, Hans-Jörg) Refinement and implementation. (*see* **2001g:68068**)
**Flener, Pierre** (*with* Lau, Kung-Kiu; Ornaghi, Mario; Richardson, Julian) An abstract formalization of correct schemas for program synthesis. (English summary) **2001f:68083**
**Frappier, Marc** *see* **Ayed, Rahma Ben et al., 2001g:68060**
**Hannay, Jo Erskine** A higher-order simulation relation for system F. (English summary) (*see* **2001f:68010**)
**Hattensperger, Claudia** (*with* Kempf, Peter) Towards a formal framework for heterogeneous relation algebra. (English summary) **2001h:68026**
**Hayes, Ian J.** (*with* Utting, Mark) A sequential real-time refinement calculus. (English summary) **2001m:68116**
**He, Jifeng** (*with* Hoare, C. A. R.) Linking theories in probabilistic programming. (English summary) **2001i:68111**
**Hoare, C. A. R.** *see* **He, Jifeng, 2001i:68111**
**Kempf, Peter** *see* **Hattensperger, Claudia, 2001h:68026**
**Konikowska, Beata** (*with* Białasik, Marcin) Reasoning with first order nondeterministic specifications. (English summary) **2001d:03078**
**Kreowski, Hans-Jörg** *see* **Ehrig, Hartmut, (2001g:68068)**
**Lau, Kung-Kiu** *see* **Flener, Pierre et al., 2001f:68083**
**Leal, William** (*with* Arora, Anish) State-level and value-level simulations in data refinement. (English summary) (*see* **2001i:68012**)
**Le Charlier, Baudouin** *see* **Cortesi, Agostino et al., 2001j:68014**
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**Mili, Ali** *see* **Ayed, Rahma Ben et al., 2001g:68060**
**Ornaghi, Mario** *see* **Flener, Pierre et al., 2001f:68083**
**Padawitz, Peter** Swinging types = functions + relations + transition systems. (English summary) **2001j:68080**
**Richardson, Julian** *see* **Flener, Pierre et al., 2001f:68083**
**(Steinbrüggen, Ralf)** *see* **Calculational system design, 2001d:68005**
**Utting, Mark** *see* **Hayes, Ian J., 2001m:68116**
**Van Hentenryck, Pascal** *see* **Cortesi, Agostino et al., 2001j:68014**
**Veloso, Paulo A. S.** (*with* Veloso, Sheila R. M.) On local modularity variants and Π-institutions. (English summary) **2001k:68084**
**Veloso, Sheila R. M.** *see* **Veloso, Paulo A. S., 2001k:68084**
**Winkowski, Józef** An algebra of data flows. (English summary) **2001i:68129**

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**Calculational system design** ★ Calculational system design. **2001d:68005**
**Marktoberdorf** ★ Calculational system design. **2001d:68005**
**NATO Advanced Study Institute:**
  **Calculational System Design** ★ Calculational system design. **2001d:68005**
**School:**
  **Calculational System Design** ★ Calculational system design. **2001d:68005**

## 68N99 None of the above, but in this section

**Albers, Susanne** (*with* Garg, Naveen; Leonardi, Stefano) Minimizing stall time in single and parallel disk systems. (*see* **2001d:68026**)
**Berger, Ulrich** (*with* Schwichtenberg, Helmut; Seisenberger, Monika) The Warshall algorithm and Dickson's lemma: two examples of realistic program extraction. (English summary) **2001k:68016**
**Chan, Fun Ting** *see* **Leung, Hing et al.**
**Chen, Tsong Yueh** (*with* Yu, Yuen Tak) The universal safeness of test allocation strategies for partition testing. (English summary)
— *see also* **Leung, Hing et al.**
**Deaton, Russell J.** *see* **Garzon, Max et al., (2001f:68031)**
**Garg, Naveen** *see* **Albers, Susanne et al., (2001d:68026)**
**Garzon, Max** (*with* Deaton, Russell J.; Rose, John A.) Soft molecular computing. (English summary) (*see* **2001f:68031**)
**Joshi, Rajeev** (*with* Leino, K. Rustan M.) A semantic approach to secure information flow. (English summary) (*see* **2001a:68005**)
**Leino, K. Rustan M.** *see* **Joshi, Rajeev, (2001a:68005)**
**Leonardi, Stefano** *see* **Albers, Susanne et al., (2001d:68026)**
**Leung, Hing** (*with* Tse, T. H.; Chan, Fun Ting; Chen, Tsong Yueh) Test case selection with and without replacement. (English summary)
**Marek, Victor** (*with* Pivkina, Inna; Truszczyński, Mirosław) Annotated revision programs. (English summary) (*see* **2001d:68017**)
**Pivkina, Inna** *see* **Marek, Victor et al., (2001d:68017)**
**Rose, John A.** *see* **Garzon, Max et al., (2001f:68031)**
**Schwichtenberg, Helmut** *see* **Berger, Ulrich et al., 2001k:68016**
**Seisenberger, Monika** *see* **Berger, Ulrich et al., 2001k:68016**
**Sweeney, Peter F.** *see* **Tip, Frank**
**Tip, Frank** (*with* Sweeney, Peter F.) Class hierarchy specialization. (English summary)
**Truszczyński, Mirosław** *see* **Marek, Victor et al., (2001d:68017)**
**Tse, T. H.** *see* **Leung, Hing et al.**
**Yu, Yuen Tak** *see* **Chen, Tsong Yueh**

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**Altinel, İ. Kuban** *see* **Özekici, Süleyman et al., 2001e:90154**
**Feijen, W. H. J.** The joy of formula manipulation. (English summary) (*see* **2001i:68012**)
**Gouda, Mohamed G.** Elements of security: closure, convergence, and protection. (English summary) (*see* **2001i:68012**)
**(Jeuring, J.)** *see* **Mathematics of program construction, 2001a:68005**
**(Lengauer, C.)** *see* **Mathematics of program construction, 2001a:68005**
**Meier, David** (*with* Sanders, Beverly A.) Composing leads-to properties. (English summary) **2001e:68120**
**Özçelikyürek, Selma** *see* **Özekici, Süleyman et al., 2001e:90154**
**Özekici, Süleyman** (*with* Altinel, İ. Kuban; Özçelikyürek, Selma) Testing of software with an operational profile. (English summary) **2001e:90154**
**Sanders, Beverly A.** *see* **Meier, David, 2001e:68120**
**(Sheeran, M.)** *see* **Mathematics of program construction, 2001a:68005**

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**Conference:**
  **Mathematics of Program Construction** ★ Mathematics of program construction. **2001a:68005**
**Marstrand** ★ Mathematics of program construction. **2001a:68005**
**Mathematics of program construction** ★ Mathematics of program construction. **2001a:68005**

# 68Pxx Theory of data

## 68P05 Data structures

**Adnan, Alî** An internal model of relational data on the basis of $\beta$-lists. (Ukrainian. English summary)
**Akl, Selim G.** (*with* Olariu, Stephan; Stojmenović, Ivan) A new BFS parent array encoding of $t$-ary trees. (English summary) **2001j:68023**
**Alstrup, Stephen** (*with* Holm, Jacob; Thorup, Mikkel) Maintaining center and median in dynamic trees. (English summary) (*see* **2001f:68005**)
— (*with* Holm, Jacob) Improved algorithms for finding level ancestors in dynamic trees. (English summary) (*see* **2001f:68008**)
— (*with* Thorup, Mikkel) Optimal pointer algorithms for finding nearest common ancestors in dynamic trees. (English summary) **2001e:68036**
**Aluru, Srinivas** (*with* Sevilgen, Fatih E.) Dynamic compressed hyperoctrees with application to the $N$-body problem. (English summary) (*see* **2001d:68010**)
**Ambühl, Christoph** (*with* Gärtner, Bernd; von Stengel, Bernhard) Optimal projective algorithms for the list update problem. (English summary) (*see* **2001f:68008**)
**Antos, Andras** (*with* Devroye, Luc) Rawa trees. (English summary) **2001m:68029**
**Aoe, Jun-ichi** *see* **Mizobuchi, Shoji et al.** *and* **Koyama, Masafumi et al.**
**Bach, Eric** (*with* Kiwi, Marcos) Threshold data structures and coding theory. (English summary) **2001e:68037**
**Ben-Amram, Amir M.** (*with* Petersen, Holger) Backing up in singly linked lists. (English summary) (*see* **2001f:68004**)
**Brodal, Gerth Stølting** (*with* Venkatesh, Srinivasan) Improved bounds for dictionary look-up with one error. (English summary) **2001b:68023**
— (*with* Pinotti, M. Cristina) Comparator networks for binary heap construction. (English summary) **2001i:68033**
**Cantrill, Bryan** *see* **Tamassia, Roberto, (2001f:68001)**
**Chanzy, Philippe** (*with* Devroye, Luc; Zamora-Cura, Carlos) Analysis of range search for random $k$-d trees. (English summary) **2001j:68024**
**Chen, Qiang Zhang** An efficient binary search tree—red/black tree. (Chinese. English and Chinese summaries)
**Cho, Seonghun** (*with* Sahni, Sartaj) A new weight balanced binary search tree. (English summary) **2001g:68017**
**Chong, Kyun-Rak** (*with* Sahni, Sartaj) Correspondence-based data structures for double-ended priority queues. (English summary)
**Chung, Kuo-Liang** *see* **Lin, Yih-Kai, 2001e:68040**
**Cole, Richard J.** (*with* Mishra, Bhubaneswar; Schmidt, Jeanette; Siegel, Alan) On the dynamic finger conjecture for splay trees. I. Splay sorting log $n$-block sequences. (English summary) **2001k:68017**
— On the dynamic finger conjecture for splay trees. II. The proof. (English summary) **2001k:68018**
**Das, Sajal K.** (*with* Pinotti, M. Cristina) Parallel priority queues based on binomial heaps. (English summary) **2001e:68038**
**De Graaf, S.** *see* **Dekking, F. M. et al., 2001j:68025**
**Dekking, F. M.** (*with* De Graaf, S.; Meester, L. E.) On the node structure of binary search trees. (English summary) **2001j:68025**
**Devroye, Luc** *see* **Chanzy, Philippe et al., 2001j:68024** *and* **Antos, Andras, 2001m:68029**
**Drmota, Michael** The saturation level in binary search tree. (English summary) **2001j:68026**
**Fagerberg, Rolf** The complexity of rebalancing a binary search tree. (English summary) **2001d:68063**
**Fedotov, Aleksei Anatol'evich** Construction of search trees with incomplete information about the occurrence frequencies of the objects being identified. (Russian. English summary) **2001d:68064**

**Forst, Gunnar** (*with* Thorup, Anders) Minimal Huffman trees. (English summary) **2001b:68024**
**Franciosa, Paolo Giulio** (*with* Frigioni, Daniele; Giaccio, Roberto) Semi-dynamic breadth-first search in digraphs. (English summary) **2001j:68027**
**Fredman, Michael L.** Information-theoretic implications for pairing heaps. (*see* **2001d:68026**)
**Frigioni, Daniele** *see* **Franciosa, Paolo Giulio et al., 2001j:68027**
**Fuketa, Masao** *see* **Mizobuchi, Shoji et al.**
**Gärtner, Bernd** *see* **Ambühl, Christoph et al., (2001f:68008)**
**Georgakopoulos, G. F.** (*with* McClurkin, D. J.) General splay: a basic theory and calculus. (English summary) (*see* **2001f:68007**)
**Giaccio, Roberto** *see* **Franciosa, Paolo Giulio et al., 2001j:68027**
**Gibbons, Jeremy** Generic downwards accumulations. (English summary) (*see* **2001a:68005**)
**Goodrich, Michael T.** (*with* Ramaiyer, Kumar) Geometric data structures. (*see* **2001d:68226**)
**Gupta, Gopal** *see* **Ranjan, Desh et al., 2001e:68041**
**Herman, Ted** (*with* Masuzawa, Toshimitsu) Available stabilizing heaps. (English summary) **2001k:68019**
**Holm, Jacob** *see* **Alstrup, Stephen et al., (2001f:68005)** *and* **(2001f:68008)**
**Hubalek, Friedrich** On the variance of the internal path length of generalized digital trees—the Mellin convolution approach. (English summary) **2001f:68023**
**Iacono, John** Improved upper bounds for pairing heaps. (English summary) (*see* **2001f:68005**)
**Italiano, Giuseppe F.** (*with* Raman, Rajeev) Topics in data structures. (*see* **2001f:68001**)
**Jaroszewski, I.** (*with* Kwaśniewski, Andrzej K.) On the principal recurrence of data structures organization and orthogonal polynomials. (English summary)
**Kaldewaij, Anne** (*with* de Vries, Laurens) Optimal real-time garbage collection for acyclic pointer structures. (English summary) (*see* **2001i:68012**)
**Kaplan, Haim** (*with* Okasaki, Chris; Tarjan, Robert E.) Simple confluently persistent catenable lists. (English summary) **2001g:68018**
**Kiwi, Marcos** *see* **Bach, Eric, 2001e:68037**
**Knessl, Charles** (*with* Szpankowski, Wojciech) A note on the asymptotic behavior of the heights in $b$-tries for $b$ large. (English summary) **2001e:68039**
— (*with* Szpankowski, Wojciech) Asymptotic behavior of the height in a digital search tree and the longest phrase of the Lempel-Ziv scheme. (English summary) **2001h:68027**
**Koyama, Masafumi** (*with* Oono, Masaki; Morita, Kazuhiro; Aoe, Jun-ichi) A fast and compact technique of implementing transition tables for finite state automata. (English summary)
**Kwaśniewski, Andrzej K.** *see* **Jaroszewski, I.**
**Lanlignel, Jean-Marc** (*with* Raynaud, Olivier; Thierry, Eric) Pruning graphs with digital search trees. Application to distance hereditary graphs. (English summary) (*see* **2001d:68024**)
**Larsen, Kim S.** AVL trees with relaxed balance. (English summary) **2001j:68028**
**Lin, Yih-Kai** (*with* Chung, Kuo-Liang) A space-efficient Huffman decoding algorithm and its parallelism. (English summary) **2001e:68040**
**Longpré, Luc** *see* **Ranjan, Desh et al., 2001e:68041**
**Luo, Xin** (*with* Yue, Xiao Bo) An algorithm for postponing the node fission during B-tree creating. (Chinese. English and Chinese summaries)
**Maaß, Moritz G.** Linear bidirectional on-line construction of affix trees. (English summary) (*see* **2001e:68007**)
**Mamoulis, N.** *see* **Papadias, D. et al.**
**Martínez, Conrado** (*with* Roura, Salvador) On the competitiveness of the move-to-front rule. (English summary) **2001f:68024**
**Masuzawa, Toshimitsu** *see* **Herman, Ted, 2001k:68019**
**Mauborgne, Laurent** An incremental unique representation for regular trees. (English summary) **2001k:68020**
**McClurkin, D. J.** *see* **Georgakopoulos, G. F., (2001f:68007)**
**Meester, L. E.** *see* **Dekking, F. M. et al., 2001j:68025**
**Micciancio, Daniele** Oblivious data structures: applications to cryptography. (*see* **2001d:68025**)
**Mishra, Bhubaneswar** *see* **Cole, Richard J. et al., 2001k:68017**
**Mizobuchi, Shoji** (*with* Sumitomo, Toru; Fuketa, Masao; Aoe, Jun-ichi) An efficient representation for implementing finite state machines based on the double-array. (English summary)
**Morita, Kazuhiro** *see* **Koyama, Masafumi et al.**
**Niculescu, Virginia** Multidimensional data structures for parallel programs description. (English summary)
**Nievergelt, Jürg** (*with* Widmayer, Peter) Spatial data structures: concepts and design choices. (English summary) (*see* **2001d:68226**)
**Okasaki, Chris** *see* **Kaplan, Haim et al., 2001g:68018**
**Olariu, Stephan** *see* **Akl, Selim G. et al., 2001j:68023**
**Oono, Masaki** *see* **Koyama, Masafumi et al.**
**Pagh, Rasmus** A new trade-off for deterministic dictionaries. (English summary) (*see* **2001f:68005**)
— A trade-off for worst-case efficient dictionaries. (English summary) **2001i:68034**
**Panangaden, Prakash** (*with* Verbrugge, Clark) Generating irregular partitionable data structures. (English summary) **2001d:68065**
**Papadias, D.** (*with* Mamoulis, N.; Theodoridis, Y.) Constraint-based processing of multiway spatial joins. (English summary)
**Petersen, Holger** *see* **Ben-Amram, Amir M., (2001f:68004)**
**Pinotti, M. Cristina** *see* **Das, Sajal K., 2001e:68038** *and* **Brodal, Gerth Stølting, 2001i:68033**
**Pontelli, Enrico** *see* **Ranjan, Desh et al., 2001e:68041**
**Ramaiyer, Kumar** *see* **Goodrich, Michael T., (2001d:68226)**
**Raman, Rajeev** *see* **Italiano, Giuseppe F., (2001f:68001)**
**Raman, Venkatesh** (*with* Srinivasa Rao, S.) Static dictionaries supporting rank. (English summary) (*see* **2001f:68007**)
**Ranjan, Desh** (*with* Pontelli, Enrico; Gupta, Gopal; Longpré, Luc) The temporal precedence problem. (English summary) **2001e:68041**
**Raynaud, Olivier** *see* **Lanlignel, Jean-Marc et al., (2001d:68024)**
**Roura, Salvador** *see* **Martínez, Conrado, 2001f:68024**
**Sahni, Sartaj** *see* **Cho, Seonghun, 2001g:68017** *and* **Chong, Kyun-Rak**
**Samet, Hanan** Multidimensional data structures. (*see* **2001f:68001**)
**Schachinger, Werner** Limiting distributions for the costs of partial match retrievals in multidimensional tries. (English summary) **2001j:68029**
**Schmidt, Jeanette** *see* **Cole, Richard J. et al., 2001k:68017**
**Sevilgen, Fatih E.** *see* **Aluru, Srinivas, (2001d:68010)**
**Siegel, Alan** *see* **Cole, Richard J. et al., 2001k:68017**
**Srinivasa Rao, S.** *see* **Raman, Venkatesh, (2001f:68007)**
**von Stengel, Bernhard** *see* **Ambühl, Christoph et al., (2001f:68008)**
**Stojmenović, Ivan** *see* **Akl, Selim G. et al., 2001j:68023**
**Sumitomo, Toru** *see* **Mizobuchi, Shoji et al.**
**Szpankowski, Wojciech** *see* **Knessl, Charles, 2001e:68039** *and* **2001h:68027**
**Talamo, Maurizio** (*with* Vocca, Paola) Representing graphs implicitly using almost optimal space. (English summary) **2001m:68030**
**Tamassia, Roberto** (*with* Cantrill, Bryan) Basic data structures. (*see* **2001f:68001**)
**Tarjan, Robert E.** *see* **Kaplan, Haim et al., 2001g:68018**
**Theodoridis, Y.** *see* **Papadias, D. et al.**
**Thierry, Eric** *see* **Lanlignel, Jean-Marc et al., (2001d:68024)**
**Thorup, Anders** *see* **Forst, Gunnar, 2001b:68024**
**Thorup, Mikkel** On RAM priority queues. (English summary) **2001b:68025**
— *see also* **Alstrup, Stephen et al., 2001e:68036** *and* **(2001f:68005)**
**Venkatesh, Srinivasan** *see* **Brodal, Gerth Stølting, 2001b:68023**
**Verbrugge, Clark** *see* **Panangaden, Prakash, 2001d:68065**
**Vocca, Paola** *see* **Talamo, Maurizio, 2001m:68030**
**de Vries, Laurens** *see* **Kaldewaij, Anne, (2001i:68012)**
**Widmayer, Peter** *see* **Nievergelt, Jürg, (2001d:68226)**
**Willard, Dan E.** Examining computational geometry, van Emde Boas trees, and hashing from the perspective of the fusion tree. (English summary) **2001c:68034**
**Yue, Xiao Bo** *see* **Luo, Xin**
**Zamora-Cura, Carlos** *see* **Chanzy, Philippe et al., 2001j:68024**

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**Agarwal, Pankaj K.** (*with* Arge, Lars; Erickson, Jeff; Franciosa, Paolo Giulio; Vitter, Jeffrey Scott) Efficient searching with linear constraints. (English summary) **2001m:68032**
**Alstrup, Stephen** (*with* Ben-Amram, Amir M.; Rauhe, Theis) Worst-case and amortised optimality in union-find (extended abstract). (English summary) (*see* **2001f:68004**)
**Amir, Amihood** (*with* Keselman, Dmitry; Landau, Gad M.; Lewenstein, Moshe; Lewenstein, Noa; Rodeh, Michael) Text indexing and dictionary matching with one error. (English summary) **2001k:68023**
**Arge, Lars** *see* **Agarwal, Pankaj K. et al., 2001m:68032**
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**Chowdhury, Rezaul Alam** (*with* Kaykobad, M.; Nath, Suman Kumar) A simplified complexity analysis of McDiarmid and Reed's variant of bottom-up-heapsort. (English summary) **2001c:68035**
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**Takaoka, Tadao** A new measure of disorder in sorting—entropy. (English summary) **2001f:68027**
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**Ben-Amram, Amir M.** *see* **Alstrup, Stephen et al., (2001f:68004)**
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## 68P15 Database theory

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**Agarwal, Pankaj K.** (*with* Arge, Lars; Erickson, Jeff; Franciosa, Paolo Giulio; Vitter, Jeffrey Scott) Efficient searching with linear constraints. (English summary) **2001m:68032**
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**Anstee, Richard** (*with* Demetrovics, János; Katona, Gyula O. H.; Sali, Attila) Low discrepancy allocation of two-dimensional data. (English summary) (*see* **2001c:68005**)
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**Astapov, D. Ê.** (*with* Bëlov, Yu. A.; Êremko, O. O.; Pyt'ev, Yu. P.; Pol'shcha, M. V.) On a probability-theoretic approach to the construction of a fuzzy relational algebra. (Ukrainian. English summary)
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**Bertino, Elisa** (*with* Catania, Barbara; Gori, Roberta) Enhancing the expressive power of the U-Datalog language. (English summary)
**Bidoit, Nicole** (*with* de Amo, Sandra) Implicit temporal query languages: towards completeness. (English summary) (*see* **2001d:68010**)
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**Ciaccia, Paolo** (*with* Montesi, Danilo; Penzo, Wilma; Trombetta, Alberto) Imprecision and user preferences in multimedia queries: a generic algebraic approach. (English summary) (*see* **2001c:68005**)
**De, Supriya Kumar** (*with* Biswas, Ranjit; Roy, Akhil Ranjan) On extended fuzzy relational database model with proximity relations. (English summary) **2001h:68028**
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## 68P20 Information storage and retrieval

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**Kraft, Donald H.** (*with* Bordogna, Gloria; Pasi, Gabriella) Fuzzy set techniques in information retrieval. (English summary) (*see* **2001f:68011**)
**Krivelevich, Michael** *see* **Alon, Noga et al., 2001h:68033**
**Kushilevitz, Eyal** *see* **Gertner, Yael et al., 2001e:68052** *and* **Ishai, Yuval, (2001f:68004)**
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**Lewenstein, Moshe** *see* **Amir, Amihood et al., 2001k:68023**
**Lewenstein, Noa** *see* **Amir, Amihood et al., 2001k:68023**
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**Loizou, George** *see* **Levene, Mark, 2001a:68021**
**Malkhi, Dahlia** *see* **Alon, Noga et al., 2001h:68033**
**Malkin, Tal** *see* **Gertner, Yael et al., 2001e:68052**
**Miltersen, Peter Bro** *see* **Alon, Noga et al., (2001d:68025)**
**Mitzenmacher, Michael** *see* **Broder, Andrei Z. et al., 2001g:68023**
**Motwani, Rajeev** *see* **Charikar, Moses et al., (2001d:68025)**
**Niedermeier, Rolf** *see* **Alber, Jochen, 2001e:68051**
**Nifanova, A. V.** *see* **Ezhov, A. A. et al.**
**Papadimitriou, Christos H.** (*with* Raghavan, Prabhakar; Tamaki, Hisao; Vempala, Santosh) Latent semantic indexing: a probabilistic analysis. (English summary) **2001m:68039**
**Pasi, Gabriella** *see* **Kraft, Donald H. et al., (2001f:68011)**
**Petrank, Erez** *see* **Alon, Noga et al., (2001d:68025)**
**Raghavan, Prabhakar** *see* **Papadimitriou, Christos H. et al., 2001m:68039**
**Rodeh, Michael** *see* **Amir, Amihood et al., 2001k:68023**
**(Shamaev, Yu. M.)** *see* **Lipnitskiĭ, S. F.**
**Stern, Julien** *see* **Alon, Noga et al., 2001h:68033**
**Tamaki, Hisao** *see* **Papadimitriou, Christos H. et al., 2001m:68039**
**Tardos, Gábor** *see* **Alon, Noga et al., (2001d:68025)**
**Vempala, Santosh** *see* **Papadimitriou, Christos H. et al., 2001m:68039**
**Ventura, Dan** *see* **Ezhov, A. A. et al.**
**Wimmers, Edward L.** *see* **Fagin, Ronald, 2001k:68025**
**Yarmosh, N. A.** *see* **Lipnitskiĭ, S. F.**
**Zhou, Shiyu** *see* **Khanna, Sanjeev, 2001e:68053** *and* **(2001d:68026)**

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**Berry, Michael W.** *see* **Jiang, Eric P., 2001e:65068**
**Blackburn, Simon R.** Perfect hash families: probabilistic methods and explicit constructions. (English summary) **2001e:68042**
**Georgakopoulos, G. F.** (*with* McClurkin, D. J.) General splay: a basic theory and calculus. (English summary) (*see* **2001f:68007**)
**Hamada, Toshio** Optimal sequential backup strategy under constrained resources. (English summary) **2001g:90079**
**Hanke, Sabine** (*with* Soisalon-Soininen, Eljas) Group updates for red-black trees. (English summary) **2001d:68066**
**Jiang, Eric P.** (*with* Berry, Michael W.) Solving total least-squares problems in information retrieval. (English summary) **2001e:65068**
**Kallahalla, Mahesh** *see* **Barve, Rakesh et al., 2001b:68153**
**Korupolu, Madhukar R.** (*with* Plaxton, C. Greg; Rajaraman, Rajmohan) Placement algorithms for hierarchical cooperative caching. (English summary) **2001m:68012**
**McClurkin, D. J.** *see* **Georgakopoulos, G. F., (2001f:68007)**
**Myers, Gene** A fast bit-vector algorithm for approximate string matching based on dynamic programming. (English summary) **2001m:68177**
**Plaxton, C. Greg** *see* **Korupolu, Madhukar R. et al., 2001m:68012**
**Rajaraman, Rajmohan** *see* **Korupolu, Madhukar R. et al., 2001m:68012**
**Soisalon-Soininen, Eljas** *see* **Hanke, Sabine, 2001d:68066**
**Varman, Peter J.** *see* **Barve, Rakesh et al., 2001b:68153**
**Vitter, Jeffrey Scott** *see* **Barve, Rakesh et al., 2001b:68153**

## 68P25 Data encryption [see also 94A60, 81P68]

**Ajtai, Miklós** Generating hard instances of the short basis problem. (English summary) **2001g:68024**
**Di Crescenzo, Giovanni** (*with* Ishai, Yuval; Ostrovsky, Rafail) Non-interactive and non-malleable commitment. (*see* **2001d:68026**)
**Friedl, Katalin** (*with* Tsai, Shi-Chun) Two results on the bit extraction problem. (English summary) **2001d:68073**
**Garay, Juan A.** (*with* Gennaro, Rosario; Jutla, Charanjit S.; Rabin, Tal) Secure distributed storage and retrieval. (English summary) **2001d:68074**
**Gennaro, Rosario** *see* **Garay, Juan A. et al., 2001d:68074**
**Gertner, Yael** (*with* Ishai, Yuval; Kushilevitz, Eyal; Malkin, Tal) Protecting data privacy in private information retrieval schemes. (*see* **2001d:68026**)
**Hu, Xiang Ling** *see* **Shi, Rong Hua[2], 2001b:68031**
**Ishai, Yuval** *see* **Di Crescenzo, Giovanni et al., (2001d:68026)** *and* **Gertner, Yael et al., (2001d:68026)**
**Jutla, Charanjit S.** *see* **Garay, Juan A. et al., 2001d:68074**
**Kasangian, Stefano** (*with* Kelly, G. Max; Vighi, Veronica) A bicategorical approach to information flow and security. (English summary) **2001j:68034**
**Kelly, G. Max** *see* **Kasangian, Stefano et al., 2001j:68034**

**Kushilevitz, Eyal** *see* **Gertner, Yael et al., (2001d:68026)**
**Malkin, Tal** *see* **Gertner, Yael et al., (2001d:68026)**
**Ostrovsky, Rafail** *see* **Di Crescenzo, Giovanni et al., (2001d:68026)**
**Rabin, Tal** *see* **Garay, Juan A. et al., 2001d:68074**
**Sagalovich, Yu. L.** On algebraic diagnostics. (Russian. Russian summary) **2001k:68026**
**Shi, Rong Hua[2]** (*with* Hu, Xiang Ling) Cheater identification in secret sharing schemes. (Chinese. English and Chinese summaries) **2001b:68031**
**Stinson, Douglas R.** (*with* Wei, Ruizhong; Zhu, Lie[1]) New constructions for perfect hash families and related structures using combinatorial designs and codes. (English summary) **2001i:68037**
**Tsai, Shi-Chun** *see* **Friedl, Katalin, 2001d:68073**
**Vighi, Veronica** *see* **Kasangian, Stefano et al., 2001j:68034**
**Wei, Ruizhong** *see* **Stinson, Douglas R. et al., 2001i:68037**
**Zhu, Lie[1]** *see* **Stinson, Douglas R. et al., 2001i:68037**

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— Secrecy by typing in security protocols. (English summary) **2001j:94034**
**Adleman, Leonard M.** (*with* Huang, Ming-Deh A.) Function field sieve method for discrete logarithms over finite fields. (English summary) **2001c:11136a**
— (*with* Huang, Ming-Deh A.) Function field sieve method for discrete logarithms over finite fields. (English summary) **2001c:11136b**
**Bauer, Friedrich L.** ★ Decrypted secrets. (English summary) **2001a:94021**
**Beimel, Amos** (*with* Ishai, Yuval; Kushilevitz, Eyal; Malkin, Tal) One-way functions are essential for single-server private information retrieval. (English summary) (*see* **2001f:68004**)
**Bellare, Mihir** (*with* Kilian, Joe; Rogaway, Phillip) The security of the cipher block chaining message authentication code. (English summary) **2001k:94046**
**Blömer, Johannes** Closest vectors, successive minima, and dual HKZ-bases of lattices. (English summary) **2001k:11126**
**Blundo, Carlo** (*with* De Santis, Alfredo; Persiano, G.; Vaccaro, Ugo) Randomness complexity of private computation. (English summary) **2001k:94058**
— (*with* Masucci, Barbara) Randomness in multi-secret sharing schemes. (English summary) **2001k:94059**
**Boudot, Fabrice** Efficient proofs that a committed number lies in an interval. (English summary) (*see* **2001b:94028**)
**Buss, Samuel R.** Bounded arithmetic, cryptography and complexity. **2001f:03074**
**Caballero-Gil, P.** *see* **Fúster Sabater, A., 2001i:94053**
**Cai, Jin-Yi** Applications of a new transference theorem to Ajtai's connection factor. (English summary) (*see* **2001j:68005**)
**Camenisch, Jan** (*with* Michels, Markus) Proving in zero-knowledge that a number is the product of two safe primes. (English summary) **2001i:94049**
**Canetti, Ran** (*with* Ostrovsky, Rafail) Secure computation with honest-looking parties: what if nobody is truly honest? (extended abstract). (English summary) (*see* **2001f:68004**)
**Canteaut, Anne** (*with* Carlet, Claude; Charpin, Pascale; Fontaine, Caroline) Propagation characteristics and correlation-immunity of highly nonlinear Boolean functions. (English summary) **2001b:94018**
**Carlet, Claude** *see* **Canteaut, Anne et al., 2001b:94018**
**Chang, Shih-Hsu** (*with* Cheng, Fang-Hsuan; Hsu, Wen-Hsing) The block cipher: SEA2 with provable resistance against DC and LC attacks. (English summary) **2001k:94049**
**Charnes, Chris** *see* **Seberry, Jennifer et al., (2001f:68001)** *and* **(2001f:68001)**
**Charpin, Pascale** *see* **Canteaut, Anne et al., 2001b:94018**
**Chen, Shi Hua[1]** *see* **Tao, Renji, 2001k:94057**
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**Cramer, Ronald** (*with* Damgård, Ivan; Maurer, Ueli M.) General secure multi-party computation from any linear secret-sharing scheme. (English summary) **2001b:94031**
**Damgård, Ivan** *see* **Cramer, Ronald et al., 2001b:94031**
**De Bonis, Annalisa** (*with* De Santis, Alfredo) Randomness in visual cryptography. (English summary) **2001e:94012**
**De Santis, Alfredo** *see* **De Bonis, Annalisa, 2001e:94012** *and* **Blundo, Carlo et al., 2001k:94058**
**Desmedt, Yvo G.** Cryptographic foundations. (*see* **2001f:68001**)
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**Di Crescenzo, Giovanni** (*with* Impagliazzo, Russell) Security-preserving hardness-amplification for any regular one-way function. (English summary) **2001m:94043**
— (*with* Malkin, Tal; Ostrovsky, Rafail) Single database private information retrieval implies oblivious transfer. (English summary) (*see* **2001b:94028**)
**Fiat, Amos** (*with* Naor, Moni) Rigorous time/space trade-offs for inverting functions. (English summary) **2001b:68052**
**Fontaine, Caroline** *see* **Canteaut, Anne et al., 2001b:94018**
**Fournet, Cédric** *see* **Abadi, Martín et al., 2001d:94011**
**Frankel, Yair** (*with* MacKenzie, Philip D.; Yung, Moti) Robust efficient distributed RSA-key generation. (*see* **2001d:68026**)
**Fúster Sabater, A.** (*with* Caballero-Gil, P.) Bitwise operation algorithm to lowerbound some sequences' span. (English summary) **2001i:94053**
**Gehani, Ashish** (*with* LaBean, Thomas H.; Reif, John H.) DNA-based cryptography. (English summary) (*see* **2001f:68031**)
**Gennaro, Rosario** (*with* Jarecki, Stanisław; Krawczyk, Hugo; Rabin, Tal) Robust threshold DSS signatures. (English summary) **2001k:94052**
**Gertner, Yael** (*with* Ishai, Yuval; Kushilevitz, Eyal; Malkin, Tal) Protecting data privacy in private information retrieval schemes. (English summary) **2001e:68052**
**Goldmann, Mikael** (*with* Russell, Alexander) Spectral bounds on general hard core predicates (extended abstract). (English summary) (*see* **2001d:68024**)
**Goldreich, Oded** (*with* Sahai, Amit; Vadhan, Salil) Honest-verifier statistical zero-knowledge equals general statistical zero-knowledge. (*see* **2001d:68026**)
— (*with* Rubinfeld, Ronitt; Sudan, Madhu) Learning polynomials with queries: the highly noisy case. (English summary) **2001m:68074**
**Golić, Jovan Dj.** Edit distances and probabilities for correlation attacks on clock-controlled combiners with memory. (English summary)
**Gonthier, Georges** *see* **Abadi, Martín et al., 2001d:94011**
**Good, I. J.** Turing's anticipation of empirical Bayes in connection with the cryptanalysis of the naval Enigma. (English summary) **2001k:62008**
**Griffin, Frances** (*with* Shparlinski, Igor E.) On the linear complexity profile of the power generator. (English summary) **2001k:94053**
**Hemaspaandra, Lane A.** (*with* Rothe, Jörg) Characterizing the existence of one-way permutations. (English summary) **2001d:68088**
**Higuchi, Akira[2]** (*with* Takagi, Naofumi) A fast addition algorithm for elliptic curve arithmetic in GF($2^n$) using projective coordinates. (English summary)
**Hsu, Wen-Hsing** *see* **Chang, Shih-Hsu et al., 2001k:94049**
**Huang, Ming-Deh A.** *see* **Adleman, Leonard M., 2001c:11136a** *and* **2001c:11136b**
**Igarashi, Yoshihide** *see* **Morita, Yusuke et al., (2001f:68014)**
**Impagliazzo, Russell** *see* **Di Crescenzo, Giovanni, 2001m:94043**
**Ishai, Yuval** *see* **Gertner, Yael et al., 2001e:68052** *and* **Beimel, Amos et al., (2001f:68004)**
**Jarecki, Stanisław** *see* **Gennaro, Rosario et al., 2001k:94052**
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**Kim, Hyun-Sung** (*with* Lee, Sung-Woo; Yoo, Kee-Young) Partitioned systolic architecture for modular multiplication in GF($2^m$). (English summary)
**Klapper, Andrew M.** (*with* Xu, Jinzhong) Algebraic feedback shift registers. (English summary) **2001m:94040**
**Koskinen, Jukka A.** Non-injective knapsack public-key cryptosystems. (English summary) **2001m:94047**
**Krawczyk, Hugo** *see* **Gennaro, Rosario et al., 2001k:94052**
**Kushilevitz, Eyal** *see* **Gertner, Yael et al., 2001e:68052** *and* **Beimel, Amos et al., (2001f:68004)**
**LaBean, Thomas H.** *see* **Gehani, Ashish et al., (2001f:68031)**
**Lee, Keon-Jik** (*with* Yoo, Kee-Young) Linear systolic multiplier/squarer for fast exponentiation. (English summary)
**Lee, Sung-Woo** *see* **Kim, Hyun-Sung et al.**
**MacKenzie, Philip D.** *see* **Frankel, Yair et al., (2001d:68026)**
**Malkin, Tal** *see* **Gertner, Yael et al., 2001e:68052; Di Crescenzo, Giovanni et al., (2001b:94028)** *and* **Beimel, Amos et al., (2001f:68004)**
**Masucci, Barbara** *see* **Blundo, Carlo, 2001k:94059**
**Maurer, Ueli M.** *see* **Cramer, Ronald et al., 2001b:94031**
**Michels, Markus** *see* **Camenisch, Jan, 2001i:94049**
**Morita, Yusuke** (*with* Motegi, Kazuhiro; Igarashi, Yoshihide) An application of PVMs (parallel virtual machines) to discrete logarithm problems. (Japanese) (*see* **2001f:68014**)
**Motegi, Kazuhiro** *see* **Morita, Yusuke et al., (2001f:68014)**
**Naor, Moni** *see* **Fiat, Amos, 2001b:68052**
**Ostrovsky, Rafail** *see* **Di Crescenzo, Giovanni et al., (2001b:94028)** *and* **Canetti, Ran, (2001f:68004)**
**Perrenoud, Mathieu** *see* **Tomassini, Marco**
**Persiano, G.** *see* **Blundo, Carlo et al., 2001k:94058**
**Pieprzyk, Josef** *see* **Seberry, Jennifer et al., (2001f:68001)** *and* **(2001f:68001)**
**Rabin, Tal** *see* **Gennaro, Rosario et al., 2001k:94052**
**Rao, Josyula Ramachandra** On the role of formal methods in security. (English summary) (*see* **2001i:68012**)
**Reif, John H.** *see* **Gehani, Ashish et al., (2001f:68031)**
**Rogaway, Phillip** *see* **Bellare, Mihir et al., 2001k:94046**
**Rojas, J. Maurice** On the complexity of Diophantine geometry in low dimensions (extended abstract). (English summary) **2001i:11149**
**Rothe, Jörg** *see* **Hemaspaandra, Lane A., 2001d:68088**
**Rubinfeld, Ronitt** *see* **Goldreich, Oded et al., 2001m:68074**
**Russell, Alexander** *see* **Goldmann, Mikael, (2001d:68024)**
**Safavi-Naini, Rei** *see* **Seberry, Jennifer et al., (2001f:68001)** *and* **(2001f:68001)**
**Sahai, Amit** *see* **Goldreich, Oded et al., (2001d:68026)**
**Seberry, Jennifer** (*with* Charnes, Chris; Pieprzyk, Josef; Safavi-Naini, Rei) Crypto topics and applications. I. (*see* **2001f:68001**)
— (*with* Charnes, Chris; Pieprzyk, Josef; Safavi-Naini, Rei) Crypto topics and applications. II. (*see* **2001f:68001**)
**Shparlinski, Igor E.** ★ Number theoretic methods in cryptography. (English summary) **2001a:94026**
— ★ Finite fields: theory and computation. (English summary) **2001g:11188**
— Linear complexity of the Naor-Reingold pseudo-random function. (English summary)
— *see also* **Griffin, Frances, 2001k:94053**
**Sudan, Madhu** *see* **Goldreich, Oded et al., 2001m:68074**
**Takagi, Naofumi** *see* **Higuchi, Akira[2]**
**Tao, Renji** (*with* Chen, Shi Hua[1]) On finite automaton public-key cryptosystem. (English summary) **2001k:94057**
**Tomassini, Marco** (*with* Perrenoud, Mathieu) Nonuniform cellular automata for cryptography. (English summary)
**Trevisan, Luca** Interactive and probabilistic proof-checking. (English summary) **2001f:68040**
**Vaccaro, Ugo** *see* **Blundo, Carlo et al., 2001k:94058**
**Vadhan, Salil** *see* **Goldreich, Oded et al., (2001d:68026)**
**Wagstaff, Samuel S., Jr.** Cryptanalysis. (*see* **2001f:68001**)
**Xu, Jinzhong** *see* **Klapper, Andrew M., 2001m:94040**
**Yan, Song Y.** ★ Number theory for computing. (English summary) **2001j:11122**
**Yoo, Kee-Young** *see* **Lee, Keon-Jik** *and* **Kim, Hyun-Sung et al.**
**Yung, Moti** *see* **Frankel, Yair et al., (2001d:68026)**

## 68P30 Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) [see also 94Axx]

**Balkenhol, Bernhard** (*with* Kurtz, Stefan) Universal data compression based on the Burrows-Wheeler transformation: theory and practice. (English summary)
**Bentley, Jon** (*with* McIlroy, Douglas) Data compression with long repeated strings. (English summary)

**Chee, Yeow Meng** (*with* Colbourn, Charles J.; Ling, Alan C. H.) Asymptotically optimal erasure-resilient codes for large disk arrays. (English summary) **2001i:68038**
**Colbourn, Charles J.** *see* **Chee, Yeow Meng et al., 2001i:68038**
**Crochemore, Maxime** (*with* Lecroq, Thierry) Text data compression algorithms. (*see* **2001f:68001**)
**Factor, Michael** (*with* Sheinwald, Dafna) Compression in the presence of shared data. (English summary)
**Klein, Shmuel T.** Improving static compression schemes by alphabet extension. (English summary) (*see* **2001e:68007**)
**Kurtz, Stefan** *see* **Balkenhol, Bernhard**
**Lecroq, Thierry** *see* **Crochemore, Maxime, (2001f:68001)**
**Ling, Alan C. H.** *see* **Chee, Yeow Meng et al., 2001i:68038**
**McIlroy, Douglas** *see* **Bentley, Jon**
**Merekin, Yu. V.** On the complexity of symbol sequences defined by linear Boolean functions. (Russian. Russian summary) **2001g:68025**
— Lower bounds for the multiplicative complexity of symbol sequences defined by monotone symmetric Boolean functions. (Russian. Russian summary) **2001c:68044**
— Lower bounds for the complexity of symbol sequences defined by symmetric Boolean functions. (Russian. Russian summary) **2001e:68054**
**Rytter, Wojciech** Algorithms on compressed strings and arrays. (English summary) **2001e:68055**
**Sharova, M. P.** The influence of dictionary size on the degree of text compression. (Russian. Russian summary) **2001c:68045**
**Sheinwald, Dafna** *see* **Factor, Michael**

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**Alon, Noga** (*with* Kaplan, Haim; Krivelevich, Michael; Malkhi, Dahlia; Stern, Julien) Scalable secure storage when half the system is faulty. (English summary) **2001h:68033**
**Carpentieri, Bruno** *see* **Dictionary based compression** *and* **Rizzo, Francesco et al.**
**Cicalese, Ferdinando** (*with* Mundici, Daniele) Perfect two-fault tolerant search with minimum adaptiveness. (English summary) **2001d:68178**
**Fu, Fang Wei** (*with* Yeung, Raymond W.) On the capacity and error-correcting codes of write-efficient memories. (English summary) **2001k:68002**
**Gligoroski, D.** *see* **Markovski, Smile et al.**
**He, Xin[1]** (*with* Kao, Ming-Yang; Lu, Hsueh-I) A fast general methodology for information-theoretically optimal encodings of graphs. (English summary) **2001f:05136**
**de Hoyos, A.** (*with* Leskow, L. Allan) Statistical models for quality criteria of image compression algorithms. (English summary)
**Kao, Ming-Yang** *see* **He, Xin[1] et al., 2001f:05136**
**Kaplan, Haim** *see* **Alon, Noga et al., 2001h:68033**
**Kärkkäinen, Juha** (*with* Navarro, Gonzalo; Ukkonen, Esko) Approximate string matching over Ziv-Lempel compressed text. (English summary) (*see* **2001e:68007**)
**Kieffer, John C.** *see* **Yang, En-hui, 2001b:94014**
**Krivelevich, Michael** *see* **Alon, Noga et al., 2001h:68033**
**Leskow, L. Allan** *see* **de Hoyos, A.**
**Lu, Hsueh-I** *see* **He, Xin[1] et al., 2001f:05136**
**Malkhi, Dahlia** *see* **Alon, Noga et al., 2001h:68033**
**Markovski, Smile** (*with* Gligoroski, D.; Stojčevska, B.) Secure two-way on-line communication by using quasigroup enciphering with almost public key. (English summary)
**Mundici, Daniele** *see* **Cicalese, Ferdinando, 2001d:68178**
**Navarro, Gonzalo** (*with* Tarhio, Jorma) Boyer-Moore string matching over Ziv-Lempel compressed text. (English summary) (*see* **2001e:68007**)
— *see also* **Kärkkäinen, Juha et al., (2001e:68007)**
**Rizzo, Francesco** (*with* Storer, James A.; Carpentieri, Bruno) LZ-based image compression. (English summary)
**Serra-Sagristà, Joan** Enumeration of lattice points in $l_1$ norm. (English summary)
**Stern, Julien** *see* **Alon, Noga et al., 2001h:68033**
**Stojčevska, B.** *see* **Markovski, Smile et al.**
**Storer, James A.** *see* **Rizzo, Francesco et al.**
**Tarhio, Jorma** *see* **Navarro, Gonzalo, (2001e:68007)**
**Tuliani, Jonathan** de Bruijn sequences with efficient decoding algorithms. (English summary) **2001k:68104**
**Ukkonen, Esko** *see* **Kärkkäinen, Juha et al., (2001e:68007)**
**Wolff, J. Gerard** Syntax, parsing and production of natural language in a framework of information compression by multiple alignment, unification and search. (English summary)
**Yang, En-hui** (*with* Kieffer, John C.) Efficient universal lossless data compression algorithms based on a greedy sequential grammar transform. I. Without context models. (English summary) **2001b:94014**
**Yeung, Raymond W.** *see* **Fu, Fang Wei, 2001k:68002**

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**Dictionary based compression** ★ Dictionary based compression.

## 68P99 None of the above, but in this section

**Ekin, Oya** (*with* Hammer, Peter L.; Kogan, Alexander[1]) Convexity and logical analysis of data. (English summary) **2001g:68026**
**Hammer, Peter L.** *see* **Ekin, Oya et al., 2001g:68026**
**Kogan, Alexander[1]** *see* **Ekin, Oya et al., 2001g:68026**

Items with secondary classifications in 68P99

**(Bock, Hans-Hermann)** *see* **Analysis of symbolic data, 2001g:62004**
**Chang, Henry Ker-Chang** (*with* Hwang, Jing-Jang; Liu, Hsing-Hua) A novel access control method using Morton number and prime factorization. (English summary) **2001k:94060**
**(Diday, Edwin)** *see* **Analysis of symbolic data, 2001g:62004**
**Hwang, Jing-Jang** *see* **Chang, Henry Ker-Chang et al., 2001k:94060**
**Liu, Hsing-Hua** *see* **Chang, Henry Ker-Chang et al., 2001k:94060**

Items listed otherwise than by author

**Analysis of symbolic data** ★ Analysis of symbolic data. **2001g:62004**

# 68Qxx Theory of computing

**(Calude, Cristian S.)** *see* **People & ideas in theoretical computer science, 2001b:68032**

Items listed otherwise than by author

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**(Atallah, Mikhail J.)** *see* **Handbook: Algorithms and theory of computation, 2001f:68001**

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## 68Q01 General

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**Golan, Jonathan S.** ★ Semirings and their applications. (English summary) **2001c:16082**

## 68Q05 Models of computation (Turing machines, etc.) [see also 03D10, 81P68]

**Abe, Hideaki** (*with* Sung, Shao Chin) Quantum circuits that are made with phase-shift and controlled-not. (Japanese) (*see* **2001f:68014**)
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**Abrams, Daniel S.** (*with* Lloyd, Seth) Computational complexity and physical law. (English summary) (*see* **2001a:81047**)
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— (*with* Kitaev, A. Yu.; Nisan, Noam) Quantum circuits with mixed states. (*see* **2001d:68026**)
**Ajtai, Miklós** Determinism versus non-determinism for linear time RAMs (extended abstract). (English summary) **2001i:68039**
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**Beigel, Richard** (*with* Fu, Bin[2]) Molecular computing, bounded nondeterminism, and efficient recursion. (English summary) **2001h:68035**
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**Chashkin, A. V.** Modeling of circuits consisting of functional elements by Turing machines. (Russian. Russian summary) **2001b:68033**
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— *see also* **Calude, Cristian S.**
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**Baldamus, Michael** Compositional constructor interpretation over coalgebraic models for the $\pi$-calculus. (English summary) **2001f:68101**
**Baldan, Paolo** (*with* Corradini, Andrea; Montanari, Ugo) Unfolding and event structure semantics for graph grammars. (English summary) (*see* **2001e:68009**)
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**Milner, Robin** ★ Proof, language, and interaction. **2001c:68009**
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**Calculational System Design** ★ Calculational system design. **2001d:68005**
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**Armando, Alessandro** (*with* Ranise, Silvio) A practical extension mechanism for decision procedures: the case study of universal Presburger arithmetic. (English summary) (*see* **2001k:68001**)
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**Bjørner, Nikolaj S.** (*with* Manna, Zohar; Sipma, Henny B.; Uribe, Tomás E.) Deductive verification of real-time systems using STeP. (English summary) (*see* **2001h:68008**)
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**Bornot, Sébastien** (*with* Sifakis, Joseph) An algebraic framework for urgency. (*see* **2001d:68005**)
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**Brien, S. M.** (*with* Martin, A. P.) A calculus for schemas in Z. (English summary)
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**Cardelli, Luca** *see* **Gordon, Andrew D.**, (**2001e:68009**)
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## 68Q65 Abstract data types; algebraic specification [see also 18C50]

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## 68Q70 Algebraic theory of languages and automata [see also 18B20, 20M35]

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## 68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)

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**Amadio, Roberto M.** On modelling mobility. (English summary) **2001d:68160**
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**Aura, Tuomas** (*with* Lilius, Johan) A causal semantics for time Petri nets. (English summary) **2001k:68087**
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**White, Patrick** *see* **Batu, Tuğkan et al.**, (**2001d:68020**)
**Zhao, Xiao Wu** (*with* Huang, Wen Qi[1]) A counterexample of a physical model hypothesis for the SAT problem. (Chinese. English and Chinese summaries)
**Zhou, Shiyu** *see* **Saks, Michael E. et al.**, (**2001d:68020**)
**Zuckerman, David** *see* **Saks, Michael E. et al.**, (**2001d:68020**)

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**Benzaken, C.** From logical gates synthesis to chromatic bicritical clutters. (English summary) **2001h:94044**
**Bshouty, Nader H.** A new composition theorem for learning algorithms. (*see* **2001d:68026**)
**Chashkin, A. V.** On a decomposition of Boolean functions. (Russian. Russian summary) **2001i:06013**
**Cherukhin, D. Yu.** On the complexity of the realization of a linear function by formulas in finite Boolean bases. (Russian. Russian summary) **2001f:06026**
— On the complexity hierarchy of Boolean bases. (Russian. Russian summary) **2001d:06019**
**Foldes, Stephan** (*with* Hammer, Peter L.) Monotone, Horn and quadratic pseudo-Boolean functions. (English summary) **2001m:90060**
**Fong, Jessica H.** (*with* Strauss, Martin Joel) An approximation $L^p$-difference algorithm for massive data streams (extended abstract). (English summary) (*see* **2001d:68024**)
**Hammer, Peter L.** *see* **Foldes, Stephan**, **2001m:90060**
**Maciel, Alexis** (*with* Pitassi, Toniann) On $ACC^0[p^k]$ Frege proofs. (*see* **2001d:68025**)
**Pitassi, Toniann** *see* **Maciel, Alexis**, (**2001d:68025**)
**Strauss, Martin Joel** *see* **Fong, Jessica H.**, (**2001d:68024**)

## 68Rxx Discrete mathematics in relation to computer science

### 68R05 Combinatorics

**Baltz, Andreas** (*with* Schoen, Tomasz; Srivastav, Anand) Probabilistic construction of small strongly sum-free sets via large Sidon sets. (English summary) **2001e:68137**
**Banderier, Cyril** (*with* Flajolet, Philippe; Schaeffer, Gilles; Soria, Michèle) Planar maps and Airy phenomena. (English summary) **2001h:68113**
**Bertoni, Alberto** (*with* Goldwurm, Massimiliano; Santini, Massimo) Random generation and approximate counting of ambiguously described combinatorial structures. (English summary) **2001e:68138**
**Broder, Andrei Z.** (*with* Mitzenmacher, Michael) Completeness and robustness properties of min-wise independent permutations. (English summary) **2001j:68092**
**Campbell, A. E.** *see* **Little, C. H. C.**, **2001b:68098**
**Cicalese, Ferdinando** (*with* Mundici, Daniele) Perfect two-fault tolerant search with minimum adaptiveness. (English summary) **2001d:68178**
**Corteel, Sylvie** Séries génératrices exponentielles pour les ECO-systèmes signés. (English and French summaries) [Exponential generating series for signed ECO-systems] **2001j:68093**
**Doerr, Benjamin** (*with* Srivastav, Anand) Approximation of multi-color discrepancy. . (English summary) (*see* **2001d:68020**)
**Dzierzawa, Michael** (*with* Oméro, Marie-José) Statistics of stable marriages. (English summary)
**Ellis, John A.** (*with* Krahn, Tobias; Fan, Hong Bing) Computing the cycles in the perfect shuffle permutation. **2001h:68114**
**Espie, Marc** Generators and the template method pattern. A paradigm for combinatorial experimentation. (English summary) (*see* **2001f:05002**)
**Fan, Hong Bing** *see* **Ellis, John A. et al.**, **2001h:68114**
**Farrag, A. S.** (*with* Sewisy, Adel A.) Computer construction and enumeration of all topologies and all hyperconnected topologies on finite sets. (English summary) **2001b:68096**
**Flajolet, Philippe** *see* **Banderier, Cyril et al.**, **2001h:68113**
**Goldwurm, Massimiliano** *see* **Bertoni, Alberto et al.**, **2001e:68138**
**Indyk, Piotr** Interpolation of symmetric functions and a new type of combinatorial design. (English summary) **2001i:68130**
**Itoh, Toshiya** (*with* Takei, Yoshinori; Tarui, Jun) On permutations with limited independence. (English summary) **2001b:68097**
**Kannan, Ravi** (*with* Vempala, Santosh) Sampling lattice points. (*see* **2001d:68025**)
**Kemp, Rainer** On leftist simply generated trees. (English summary) **2001c:68097**
**Krahn, Tobias** *see* **Ellis, John A. et al.**, **2001h:68114**
**Little, C. H. C.** (*with* Campbell, A. E.) Evolutionary families of sets. (English summary) **2001b:68098**
**Martin, Russell A.** (*with* Randall, Dana) Pfaffian algorithms for sampling routings on regions with free boundary conditions. (English summary) (*see* **2001d:68020**)
**Martinelli, Luca** (*with* Merlini, Donatella; Rocchini, Romina; Romoli, Angela; Verri, M. Cecilia) A software to solve strip tiling problems. (English summary) (*see* **2001f:05002**)
**Martínez, Conrado** (*with* Molinero, Xavier) Unranking of labelled combinatorial structures. (English summary) **2001k:68103**
**Merlini, Donatella** *see* **Martinelli, Luca et al.**, (**2001f:05002**)
**Mikawa, Kenji** (*with* Semba, Ichiro) Generation of Fibonacci levels by replicative algorithms. (Japanese) (*see* **2001f:68014**)
**Mitzenmacher, Michael** *see* **Broder, Andrei Z.**, **2001j:68092**
**Molinero, Xavier** *see* **Martínez, Conrado**, **2001k:68103**
**Mundici, Daniele** *see* **Cicalese, Ferdinando**, **2001d:68178**
**Neguritsa, V. M.** On the possibility of representing an Euler circuit by Gray codes. (Russian. Russian summary) (*see* **2001h:68004**)
**Øhrn, Aleksander** *see* **Vinterbo, Staal**, **2001e:68139**
**Oméro, Marie-José** *see* **Dzierzawa, Michael**
**Randall, Dana** *see* **Martin, Russell A.**, (**2001d:68020**)
**Rocchini, Romina** *see* **Martinelli, Luca et al.**, (**2001f:05002**)
**Roelants van Baronaigien, Dominique** Loop free generation of $k$-ary trees. (English summary) (*see* **2001e:00025**)
**Romoli, Angela** *see* **Martinelli, Luca et al.**, (**2001f:05002**)
**Santini, Massimo** *see* **Bertoni, Alberto et al.**, **2001e:68138**
**Schaeffer, Gilles** *see* **Banderier, Cyril et al.**, **2001h:68113**
**Schoen, Tomasz** *see* **Baltz, Andreas et al.**, **2001e:68137**
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**Sewisy, Adel A.** *see* **Farrag, A. S.**, **2001b:68096**
**Soria, Michèle** *see* **Banderier, Cyril et al.**, **2001h:68113**
**Srivastav, Anand** *see* **Baltz, Andreas et al.**, **2001e:68137** *and* **Doerr, Benjamin**, (**2001d:68020**)
**Takaoka, Tadao** An $O(1)$ time algorithm for generating multiset permutations. (English summary) (*see* **2001f:68007**)
**Takei, Yoshinori** *see* **Itoh, Toshiya et al.**, **2001b:68097**
**Tang, Changjie** *see* **Xiang, Limin et al.**, **2001h:68115**
**Tarui, Jun** *see* **Itoh, Toshiya et al.**, **2001b:68097**
**Tichler, Krisztián** Minimum matrix representation of some key system. (English summary) (*see* **2001c:68005**)
**Tuliani, Jonathan** de Bruijn sequences with efficient decoding algorithms. (English summary) **2001k:68104**
**Ushijima, Kazuo** *see* **Xiang, Limin et al.**, **2001h:68115**
**Vempala, Santosh** *see* **Kannan, Ravi**, (**2001d:68025**)
**Verri, M. Cecilia** *see* **Martinelli, Luca et al.**, (**2001f:05002**)
**Vinterbo, Staal** (*with* Øhrn, Aleksander) Minimal approximate hitting sets and rule templates. (English summary) **2001e:68139**
**Xiang, Limin** (*with* Ushijima, Kazuo; Tang, Changjie) Efficient loopless generation of Gray codes for $k$-ary trees. (English summary) **2001h:68115**
**Zheng, Si-Qing** Constructing optical networks using combinatorial designs. (English summary) **2001e:68140**

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**Ahlswede, Rudolf F.** (*with* Cai, Ning; Zhang, Zhen[1]) Higher level extremal problems. **2001e:05131**
**Arora, Gurdial** (*with* Sharma, Bhu Dev) Non-binary Gray codes. (English summary) **2001f:94019**
**Arquès, Didier** (*with* Béraud, Jean-François) Le schéma de carte et ses applications. (English summary) [The sketch of map and its applications] **2001m:57005**
**Arredondo Ruiz, J. H.** *see* **Morales, Luis B.**, **2001d:06005**
**Babai, László** Paul Erdős (1913–1996): his influence on the theory of computing. (*see* **2001d:68025**)
**Barcucci, Elena** (*with* Brunetti, Sara; Del Lungo, Alberto; Nivat, Maurice) Reconstruction of discrete sets from three or more X-rays. (English summary) **2001d:68217**
— (*with* Brunetti, Sara; Del Ristoro, Francesco) Succession rules and deco polyominoes. (English summary) **2001k:05053**
— (*with* Del Lungo, Alberto; Frosini, Andrea; Rinaldi, Simone) A technology for reverse-engineering a combinatorial problem from a rational generating function. (English summary) **2001j:05005**
**Béraud, Jean-François** *see* **Arquès, Didier**, **2001m:57005**
**Bespamyatnykh, S. N.** (*with* Segal, Michael) Enumerating longest increasing subsequences and patience sorting. (English summary) **2001h:68160**
**Brunetti, Sara** *see* **Barcucci, Elena et al.**, **2001d:68217** *and* **2001k:05053**
**Burckel, Serge** (*with* Morillon, Marianne) Three generators for minimal writing-space computations. (English summary) **2001d:68075**
**Cai, Ning** *see* **Ahlswede, Rudolf F. et al.**, **2001e:05131**
**Chari, Suresh** (*with* Rohatgi, Pankaj; Srinivasan, Aravind) Improved algorithms via approximations of probability distributions. (English summary) **2001g:68102**
**Charnes, Chris** (*with* Dempwolff, Ulrich) The eight-dimensional ovoids over GF(5). (English summary) **2001g:51004**
**Chee, Yeow Meng** (*with* Colbourn, Charles J.; Ling, Alan C. H.) Asymptotically optimal erasure-resilient codes for large disk arrays. (English summary) **2001i:68038**
**Colbourn, Charles J.** *see* **Chee, Yeow Meng et al.**, **2001i:68038**
**Curiel, Imma** ★ Cooperative game theory and applications. **2001h:91002**

**Czygrinow, Andrzej** (*with* Rödl, Vojtěch) An algorithmic regularity lemma for hypergraphs. (English summary) **2001j:05088**
**Del Lungo, Alberto** *see* **Barcucci, Elena et al., 2001d:68217** *and* **2001j:05005**
**Del Ristoro, Francesco** *see* **Barcucci, Elena et al., 2001k:05053**
**Dempwolff, Ulrich** *see* **Charnes, Chris, 2001g:51004**
**Denise, Alain** (*with* Roques, Olivier; Termier, Michel) Random generation of words of context-free languages according to the frequencies of letters. (English summary) **2001h:68076**
**Duh, Rong-chii** (*with* Fürer, Martin) Approximation of $k$-set cover by semi-local optimization. (*see* **2001d:68025**)
**Fraenkel, Aviezri S.** Recent results and questions in combinatorial game complexities. (English summary) **2001j:91033**
**Frankel, Yair** *see* **Patt-Shamir, Boaz et al., 2001f:05015**
**Frosini, Andrea** *see* **Barcucci, Elena et al., 2001j:05005**
**Fürer, Martin** *see* **Duh, Rong-chii, (2001d:68025)**
**Gambosi, Giorgio** (*with* Postiglione, Alberto; Talamo, Maurizio) Algorithms for the relaxed online bin-packing model. (English summary) **2001m:90077**
**Goldreich, Oded** (*with* Goldwasser, Shafi; Lehman, Eric; Ron, Dana; Samorodnitsky, Alex) Testing monotonicity. (English summary) **2001h:68056**
**Goldwasser, Shafi** *see* **Goldreich, Oded et al., 2001h:68056**
**Hifi, Mhand** (*with* Paschos, Vangelis Th.; Zissimopoulos, Vassilis) A neural network for the minimum set covering problem. (English summary) **2001b:68108**
**(Hochbaum, Dorit S.)** *see* **Randomization, approximation, and combinatorial optimization, 2001d:68020**
**(Hsu, Wen Lian)** *see* **Computing and combinatorics**
**(Jansen, Klaus)** *see* **Randomization, approximation, and combinatorial optimization, 2001d:68020**
**(Kao, Ming-Yang)** *see* **Computing and combinatorics**
**Kaplan, Haim** (*with* Shamir, Ron; Tarjan, Robert E.) A faster and simpler algorithm for sorting signed permutations by reversals. (English summary) **2001c:92008**
**Klasner, Norbert** (*with* Simon, Hans Ulrich) General lower bounds on the query complexity within the exact learning model. (English summary) **2001m:68077**
**Korsh, James F.** *see* **LaFollette, Paul S., Jr., 2001m:05019**
**LaFollette, Paul S., Jr.** (*with* Korsh, James F.) A loopless algorithm for generation of basic minimal interval orders. (English summary) **2001m:05019**
**Lagarias, Jeffrey C.** Well-spaced labelings of points in rectangular grids. (English summary) **2001i:52028**
**Lehman, Eric** *see* **Goldreich, Oded et al., 2001h:68056**
**Ling, Alan C. H.** *see* **Chee, Yeow Meng et al., 2001i:68038**
**Marzetta, Ambros** (*with* Nievergelt, Jürg) Enumerating the $k$ best plane spanning trees. (English summary) **2001m:68169**
**Miyakawa, Kampei** (*with* Narushima, Hiroshi) Lattice-theoretic properties of MPR-posets in phylogeny. (*see* **2001f:68014**)
— (*with* Narushima, Hiroshi) Some properties of the distortion index on all MPRs. (Japanese) (*see* **2001f:68014**)
**Morales, Luis B.** (*with* Arredondo Ruiz, J. H.) A family of asymptotically $e(n-1)!$ polynomial orders of $N^n$. (English summary) **2001d:06005**
**Morillon, Marianne** *see* **Burckel, Serge, 2001d:68075**
**Narushima, Hiroshi** *see* **Miyakawa, Kampei, (2001f:68014)** *and* **(2001f:68014)**
**Nešetřil, Jaroslav** (*with* Tardif, Claude) Duality theorems for finite structures (characterising gaps and good characterisations). (English summary) **2001g:05087**
**Nievergelt, Jürg** *see* **Marzetta, Ambros, 2001m:68169**
**Nivat, Maurice** *see* **Barcucci, Elena et al., 2001d:68217**
**Paschos, Vangelis Th.** *see* **Hifi, Mhand et al., 2001b:68108**
**Patt-Shamir, Boaz** (*with* Tsiounis, Yiannis; Frankel, Yair) Exact analysis of exact change: the $k$-payment problem. (English summary) **2001f:05015**
**Postiglione, Alberto** *see* **Gambosi, Giorgio et al., 2001m:90077**
**Rinaldi, Simone** *see* **Barcucci, Elena et al., 2001j:05005**
**Rödl, Vojtěch** *see* **Czygrinow, Andrzej, 2001j:05088**
**Rohatgi, Pankaj** *see* **Chari, Suresh et al., 2001g:68102**
**(Rolim, José D. P.)** *see* **Randomization, approximation, and combinatorial optimization, 2001d:68020**
**Ron, Dana** *see* **Goldreich, Oded et al., 2001h:68056**
**Roques, Olivier** *see* **Denise, Alain et al., 2001h:68076**
**Samorodnitsky, Alex** *see* **Goldreich, Oded et al., 2001h:68056**
**Sarkar, U. K.** On the design of a constructive algorithm to solve the multi-peg towers of Hanoi problem. (English summary) **2001k:05025**
**Segal, Michael** *see* **Bespamyatnykh, S. N., 2001h:68160**
**Sgall, Jiří** Bounds on pairs of families with restricted intersections. (English summary) **2001e:05135**
**Shamir, Ron** *see* **Kaplan, Haim et al., 2001c:92008**
**Sharma, Bhu Dev** *see* **Arora, Gurdial, 2001f:94019**
**Simon, Hans Ulrich** *see* **Klasner, Norbert, 2001m:68077**
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**Srinivasan, Aravind** *see* **Chari, Suresh et al., 2001g:68102**
**Talamo, Maurizio** *see* **Gambosi, Giorgio et al., 2001m:90077**
**Tamm, Ulrich** Communication complexity and orthogonal polynomials. (English summary) **2001m:05268**
**Tardif, Claude** *see* **Nešetřil, Jaroslav, 2001g:05087**
**Tarjan, Robert E.** *see* **Kaplan, Haim et al., 2001c:92008**
**Termier, Michel** *see* **Denise, Alain et al., 2001h:68076**
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**Wang, Biing-Feng** Tight bounds on the solutions of multidimensional divide-and-conquer maximin recurrences. (English summary) **2001g:68107**
**Wang, Jie[1]** Packing of unequal spheres and automated radiosurgical treatment planning. (English summary) **2001a:05036**
**Yang, Yuanyuan** Nonblocking and almost nonblocking multicast switching networks. (English summary) **2001e:68023**
**Zeng, Jiang** A bijective proof of Lassalle's partition identity. **2001a:05015**
— Erratum: "A bijective proof of Lassalle's partition identity" [J. Combin. Theory Ser. A **89** (2000), no. 2, 289–290; MR 2001a:05015].
**Zhang, Zhen[1]** *see* **Ahlswede, Rudolf F. et al., 2001e:05131**
**Zissimopoulos, Vassilis** *see* **Hifi, Mhand et al., 2001b:68108**

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**Berkeley, CA** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Computing and combinatorics** ★ Computing and combinatorics.
**Lecture Notes in Computer Science** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
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**Taipei** ★ Computing and combinatorics.
**Workshop:**
**Approximation Algorithms for Combinatorial Optimization Problems** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**
**Randomization and Approximation Techniques in Computer Science** ★ Randomization, approximation, and combinatorial optimization. **2001d:68020**

## 68R10 Graph theory [see also 05Cxx, 90B10, 90B35, 90C35]

**Accornero, Anna** (*with* Ancona, Massimo; Varini, Sonia) All separating triangles in a plane graph can be optimally "broken" in polynomial time. (English summary) **2001h:68116**
**Alber, Jochen** (*with* Bodlaender, Hans L.; Fernau, Henning; Niedermeier, Rolf) Fixed parameter algorithms for planar dominating set and related problems. (English summary) **2001g:68077**
**Albers, Susanne** (*with* Henzinger, Monika R.) Exploring unknown environments. (English summary) **2001b:68099**
**Aleksandrov, Lyudmil G.** (*with* Djidjev, Hristo N.) A dynamic algorithm for maintaining graph partitions. (English summary) (*see* **2001f:68005**)
**Alon, Noga** (*with* Arad, Uri; Azar, Yossi) Independent sets in hypergraphs with applications to routing via fixed paths. (English summary) (*see* **2001d:68020**)
**Ancona, Massimo** *see* **Accornero, Anna et al., 2001h:68116**
**Annexstein, Fred S.** (*with* Berman, Kenneth A.) Directional routing via generalized $st$-numberings. (English summary) **2001a:68073**
**Arad, Uri** *see* **Alon, Noga et al., (2001d:68020)**
**Arbib, Claudio** (*with* Mosca, Raffaele) Polynomial algorithms for special cases of the balanced complete bipartite subgraph problem. (English summary) **2001f:68107**
**Armoni, Roy** (*with* Ta-Shma, Amnon; Wigderson, Avi; Zhou, Shiyu) An $O(\log(n)^{4/3})$ space algorithm for $(s,t)$ connectivity in undirected graphs. (English summary) **2001c:68098**
**Awerbuch, Baruch** (*with* Singh, Tripurari) Online algorithms for selective multicast and maximal dense trees. (*see* **2001d:68025**)
**Azar, Yossi** *see* **Alon, Noga et al., (2001d:68020)**
**Babai, László** Paul Erdős (1913–1996): his influence on the theory of computing. (*see* **2001d:68025**)
**Barrett, Chris** (*with* Jacob, Riko; Marathe, Madhav V.) Formal-language-constrained path problems. (English summary) **2001i:68131**
**Barrière, Lali** (*with* Fàbrega, Josep; Simó, Ester; Zaragozá, Marisa) Fault-tolerant routings in chordal ring networks. (English summary) **2001e:68141**
**Belousov, A. I.** (*with* Pastukhovskiĭ, A. V.) Oriented hypergraphs and permutation systems. (Russian. English and Russian summaries)
**Bender, Michael A.** (*with* Fernández, Antonio[1]; Ron, Dana; Sahai, Amit; Vadhan, Salil) The power of a pebble: exploring and mapping directed graphs. (*see* **2001d:68026**)
**Bera, Debashis** *see* **Pal, Madhumangal et al., 2001e:68152**
**Berman, Kenneth A.** *see* **Annexstein, Fred S., 2001a:68073**
**Berman, Piotr** A $d/2$ approximation for maximum weight independent set in $d$-claw free graphs. (English summary) **2001m:68139**
**Berry, Anne** (*with* Bordat, Jean-Paul; Heggernes, Pinar) Recognizing weakly triangulated graphs by edge separability. (English summary) **2001m:68140**
**Biedl, Therese C.** (*with* Shermer, Thomas C.; Whitesides, Sue; Wismath, Stephen K.) Bounds for orthogonal 3-D graph drawing. (English summary) **2001h:68117**
— (*with* Madden, Brendan P.; Tollis, Ioannis G.) The three-phase method: a unified approach to orthogonal graph drawing. (English summary) **2001k:68105**
**Blair, Jean R. S.** (*with* Heggernes, Pinar; Telle, Jan Arne) A practical algorithm for making filled graphs minimal. (English summary) **2001j:68094**
**Bodlaender, Hans L.** (*with* Thilikos, Dimitris M.) Graphs with branchwidth at most three. (English summary) **2001e:68143**
— (*with* Kloks, Ton; Tan, Richard B.; van Leeuwen, Jan) $\lambda$-coloring of graphs. (English summary) **2001e:68142**
— *see also* **Alber, Jochen et al., 2001g:68077**
**Bordat, Jean-Paul** *see* **Berry, Anne et al., 2001m:68140**
**Boros, Endre** (*with* Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) Generating partial and multiple transversals of a hypergraph. (English summary) **2001h:68118**
**Bouchitté, Vincent** (*with* Todinca, Ioan) Listing all potential maximal cliques of a graph. (English summary) **2001e:68144**
**Brandes, Ulrik** (*with* Wagner, Dorothea) A linear time algorithm for the arc disjoint Menger problem in planar directed graphs. (English summary) **2001f:68108**
**Bridgeman, Stina S.** (*with* Di Battista, Giuseppe; Didimo, Walter; Liotta, Giuseppe; Tamassia, Roberto; Vismara, Luca) Turn-regularity and optimal area drawings of orthogonal representations. (English summary) **2001f:68109**
**Buchsbaum, Adam L.** (*with* Kaplan, Haim; Rogers, Anne; Westbrook, Jeffery R.) Linear-time pointer-machine algorithms for least common ancestors, MST verification, and dominators. (*see* **2001d:68026**)
**Charikar, Moses** (*with* Chekuri, Chandra; Goel, Ashish; Guha, Sudipto) Rounding via trees: deterministic approximation algorithms for group Steiner trees and $k$-median. (*see* **2001d:68026**)

— (*with* Khuller, Samir; Raghavachari, Balaji) Algorithms for capacitated vehicle routing. (*see* **2001d:68026**)

**Chassaing, Philippe** (*with* Marckert, J. F.; Yor, Marc) The height and width of simple trees. (English summary) **2001j:68095**

**Chekuri, Chandra** *see* **Charikar, Moses et al., (2001d:68026)**

**Chen, Zhi-Zhong** (*with* Grigni, Enory; Papadimitriou, Christos H.) Planar map graphs. (*see* **2001d:68026**)

— Efficient algorithms for acyclic colorings of graphs. (English summary) **2001d:68179**

**Chin, Kien-Weh** (*with* Yen, Hsu Chun) The symmetry number problem for trees. (English summary)

**Chung, Kuo-Liang** (*with* Yan, Wen-Ming) On the number of spanning trees of a multi-complete/star related graph. (English summary) **2001j:68096**

**Chwa, Kyung-Yong** *see* **Park, Jung-Heum, 2001g:68082**

**Cohen, Edith** (*with* Zwick, Uri) All-pairs small-stretch paths. (English summary) **2001m:68141**

**Condon, Anne** (*with* Karp, Richard M.) Algorithms for graph partitioning on the planted partition model. (English summary) **2001m:68142**

**Corradini, Andrea** (*with* Gadducci, Fabio) An algebraic presentation of term graphs, via gs-monoidal categories. (English summary) **2001h:68119**

**Courcelle, Bruno** The monadic second-order logic of graphs. XI. Hierarchical decompositions of connected graphs. (English summary) **2001k:68106**

— (*with* Olariu, Stephan) Upper bounds to the clique width of graphs. (English summary) **2001e:68145**

— The monadic second-order logic of graphs. XII. Planar graphs and planar maps. (English summary) **2001k:68107**

— The monadic second-order logic of graphs. XIII. Graph drawings with edge crossings. (English summary) **2001k:68108**

— (*with* Makowsky, J. A.; Rotics, Udi) Linear time solvable optimization problems on graphs of bounded clique-width. (English summary) **2001e:68146**

**Dessmark, Anders** (*with* Lingas, Andrzej; Proskurowski, Andrzej) Maximum packing for $k$-connected partial $k$-trees in polynomial time. (English summary) **2001g:68078**

**Di Battista, Giuseppe** (*with* et al.) Drawing directed acyclic graphs: an experimental study. (English summary)

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**Widmayer, Peter** *see* **Workshop: Theoretical Aspects of Computer Science, 2001e:68014** *and* **Doddi, Srinivas R. et al., 2001m:68183**
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**Williamson, David P.** *see* **Aggarwal, Alok et al., 2001b:05198**
**(Winkler, Peter M.)** *see* **Imrich, Wilfried, 2001k:05001**
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**Zemmari, Akka** *see* **Métivier, Yves et al., 2001j:68146**
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**Graph grammars and computing by graph transformation** ★ Handbook of graph grammars and computing by graph transformation. Vol. 2. Applications, languages and tools. **2001d:68012**
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**New trends in graph drawing** ★ New trends in graph drawing. **2001d:68018**
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## 68R15 Combinatorics on words

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**Apostolico, Alberto** (*with* Brimkov, Valentin E.) Fibonacci arrays and their two-dimensional repetitions. (English summary) **2001f:68111**
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**Caron, Pascal** Families of locally testable languages. (English summary) **2001h:68124**
**Carpi, Arturo** (*with* de Luca, Aldo) Special factors, periodicity, and an application to Sturmian words. (English summary) **2001g:68083**
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**—** (*with* Ferenczi, Sébastien; Zamboni, Luca Q.) Imbalances in Arnoux-Rauzy sequences. (English and French summaries) **2001j:68097**
**Choffrut, Christian** (*with* Horváth, Sándor) Transfinite equations in transfinite strings. **2001j:68098**
**Dai, Zong Duo** *see* **Jiang, Shaoquan et al., 2001b:68105**
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**Ferenczi, Sébastien** *see* **Cassaigne, Julien et al., 2001j:68097**
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**Holub, Štěpán** In search of a word with special combinatorial properties. (English summary) **2001k:68125**
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**—** Some open problems in combinatorics of words and related areas. (English summary) (*see* **2001h:00017**)
**Klepinin, A. V.** (*with* Sukhanov, E. V.) On the combinatorial properties of the Arshon sequence. (Russian. Russian summary) **2001g:68084**
**Kobayashi, Yuji** (*with* Otto, Friedrich) Repetitiveness of languages generated by morphisms. (English summary) **2001i:68141**
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**Melançon, Guy** Lyndon factorization of Sturmian words. (English summary) **2001c:68107**
**Mignosi, Filippo** *see* **Karhumäki, Juhani et al., 2001j:68099**
**Mouchard, Laurent** Normal forms of quasiperiodic strings. (English summary) **2001j:68100**
**—** *see also* **Régnier, Mireille, (2001e:68007)**
**Nguyen Huong Lam** *see* **Phan Trung Huy, 2001b:68106**
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**Pirillo, Giuseppe** Some factorizations of the Fibonacci word. (English summary) **2001k:68113**
**Plandowski, Wojciech** *see* **Karhumäki, Juhani et al., 2001j:68099** *and* **Ilie, Lucian, (2001d:68024)**
**Régnier, Mireille** (*with* Mouchard, Laurent) Periods and quasiperiods characterization. (English summary) (*see* **2001e:68007**)
**Richomme, Gwénaël** (*with* Wlazinski, Francis) About cube-free morphisms (extended abstract). (English summary) (*see* **2001d:68024**)
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**Valtr, Pavel** Generalizations of Davenport-Schinzel sequences. (English summary) **2001d:68185**
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**Zamboni, Luca Q.** *see* **Cassaigne, Julien et al., 2001j:68097** *and* **Risley, Rebecca N., 2001m:68146**
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**Béal, Marie-Pierre** (*with* Mignosi, Filippo; Restivo, A.; Sciortino, M.) Forbidden words in symbolic dynamics. (English summary) **2001i:37020**
**Berthé, Valérie** Sequences of low complexity: automatic and Sturmian sequences. (English summary) **2001e:37012**
**Bertoni, Alberto** (*with* Massazza, P.) On the square root of languages. (English summary) **2001i:68118**
**Brodal, Gerth Stølting** (*with* Pedersen, Christian N. S.) Finding maximal quasiperiodicities in strings. (English summary) (*see* **2001e:68007**)
**(Bruyère, Véronique)** *see* **Proceedings: Conference on Theoretical Computer Science**
**Bussemaker, Harmen J.** (*with* Li, Hao[6]; Siggia, Eric D.) Building a dictionary for genomes: identification of presumptive regulatory sites by statistical analysis. (English summary) **2001j:92031**
**Carton, Olivier** Wreath product and infinite words. (English summary) **2001g:68069**
**Chang, Chih-Hao** *see* **Chuan, Wai-Fong et al., 2001h:11026**
**Chang, Yen-Liang** *see* **Chuan, Wai-Fong et al., 2001h:11026**
**Chuan, Wai-Fong** (*with* Yu, Fei) Extraction problem of the Pell sequence. **2001h:11025**
**—** (*with* Chang, Chih-Hao; Chang, Yen-Liang) Suffixes of Fibonacci word patterns. **2001h:11026**
**Czumaj, Artur** (*with* Gąsieniec, Leszek) On the complexity of determining the period of a string. (English summary) (*see* **2001e:68007**)
**De Felice, Clelia** On a property of the factorizing codes. (English summary) **2001g:68050**
**Gan, Shaobo** Sturmian sequences and the lexicographic world. (English summary) **2001m:37023**

**Gąsieniec, Leszek** *see* **Czumaj, Artur, (2001e:68007)**
**(Giancarlo, Raffaele)** *see* **Combinatorial pattern matching, 2001e:68007**
**Golubitskiĭ, O. D.** Computation of distances on strings. (Russian. Russian summary) **2001f:68133**
**Halbeisen, Lorenz** (*with* Hungerbühler, Norbert) An application of van der Waerden's theorem in additive number theory. (English summary) **2001h:11022**
**Heinis, Alex** (*with* Tijdeman, Rob) Characterisation of asymptotically Sturmian sequences. (English summary) **2001e:11021**
**Hungerbühler, Norbert** *see* **Halbeisen, Lorenz, 2001h:11022**
**Ketkar, Pallavi** (*with* Zamboni, Luca Q.) Primitive substitutive numbers are closed under rational multiplication. (English and French summaries) **2001m:11026**
**Li, Hao[6]** *see* **Bussemaker, Harmen J. et al., 2001j:92031**
**Lopez, Luis-Miguel** (*with* Narbel, Philippe) Substitutions and interval exchange transformations of rotation class. (English summary) **2001m:37026**
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**Mauduit, Christian** Problem session dedicated to Gérard Rauzy. **2001i:11001**
**Melnikov, B. F.** $2\omega$-finite automata and sets of obstructions of their languages. (English summary) **2001a:68059**
**Mignosi, Filippo** *see* **Béal, Marie-Pierre et al., 2001i:37020**
**Misra, Jayadev** A walk over the shortest path: Dijkstra's algorithm viewed as fixed-point computation. (English summary) (*see* **2001i:68012**)
**Narbel, Philippe** *see* **Lopez, Luis-Miguel, 2001m:37026**
**Panayotopoulos, Antonios** (*with* Tsikouras, P. G.) The multimatching property of nested sets. (English and French summaries) **2001b:05022**
**Pedersen, Christian N. S.** *see* **Brodal, Gerth Stolting, (2001e:68007)**
**Point, Françoise** On extensions of Presburger arithmetic. (*see* **2001b:03005**)
**(Rauzy, Gérard)** *see* **Mauduit, Christian, 2001i:11001**
**Régnier, Mireille** A unified approach to word occurrence probabilities. (English summary) **2001j:92033**
**Restivo, A.** *see* **Béal, Marie-Pierre et al., 2001i:37020**
**(Sankoff, David)** *see* **Combinatorial pattern matching, 2001e:68007**
**Sapir, Olga** Finitely based words. (English summary) **2001g:20070**
**Sciortino, M.** *see* **Béal, Marie-Pierre et al., 2001i:37020**
**Shallit, Jeffrey O.** Automaticity and rationality. (English summary) **2001h:68083**
— *see also* **Allouche, Jean-Paul, 2001c:11009**
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**Tamura, Jun-Ichi** Certain partitions of a lattice. (English summary) **2001j:37030**
**Tijdeman, Rob** *see* **Heinis, Alex, 2001e:11021**
**Tsikouras, P. G.** *see* **Panayotopoulos, Antonios, 2001b:05022**
**Yasutomi, Shin-Ichi** On Sturmian sequences which are invariant under some substitutions. (English summary) **2001a:11037**
**Yu, Fei** *see* **Chuan, Wai-Fong, 2001h:11025**
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**Combinatorial pattern matching** ★ Combinatorial pattern matching. **2001e:68007**
**Lecture Notes in Computer Science** ★ Combinatorial pattern matching. **2001e:68007**
**Marne-la-Vallée** ★ Journées Montoises d'Informatique Théorique. [Proceedings of the Mons Conference on Theoretical Computer Science]
**Montreal, QC** ★ Combinatorial pattern matching. **2001e:68007**
**Proceedings:**
  **Conference on Theoretical Computer Science** ★ Journées Montoises d'Informatique Théorique. [Proceedings of the Mons Conference on Theoretical Computer Science]
**Symposium:**
  **Combinatorial Pattern Matching** ★ Combinatorial pattern matching. **2001e:68007**

## 68R99 None of the above, but in this section

Items with secondary classifications in 68R99

**Tan, Eng Chong** (*with* Yang, H.) Optimization of fixed-polarity Reed-Muller circuits using dual-polarity property. (English summary) **2001k:94090**
**Yang, H.** *see* **Tan, Eng Chong, 2001k:94090**
**Zeilberger, Doron** Symbol-crunching with the transfer-matrix method in order to count skinny physical creatures. (English summary) **2001e:05010**

# 68Txx Artificial intelligence

Items with secondary classifications in 68Txx

**(Burgard, Wolfram)** *see* **KI-99: advances in artificial intelligence, 2001c:68006**
**(Cairo, Osvaldo)** *see* **MICAI 2000: advances in artificial intelligence, 2001e:68010**
**(Cantu, Francisco J.)** *see* **MICAI 2000: advances in artificial intelligence, 2001e:68010**
**(Christaller, Thomas)** *see* **KI-99: advances in artificial intelligence, 2001c:68006**
**(Cremers, Armin B.)** *see* **KI-99: advances in artificial intelligence, 2001c:68006**
**(Hamilton, Howard J.)** *see* **Advances in artificial intelligence, 2001e:68003**
**Raynor, William J., Jr.** ★ The international dictionary of artificial intelligence. (English summary)
**(Sucar, L. Enrique)** *see* **MICAI 2000: advances in artificial intelligence, 2001e:68010**

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**Acapulco** ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
**Advances in artificial intelligence** ★ Advances in artificial intelligence. **2001e:68003**
**Austin, TX** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Bonn** ★ KI-99: advances in artificial intelligence. **2001c:68006**
**Conference:**
  **Artificial Intelligence** ★ KI-99: advances in artificial intelligence. **2001c:68006**
  — ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
  — ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Conference:** (*cont'd.*)
  **Canadian Society for Computational Studies of Intelligence** ★ Advances in artificial intelligence. **2001e:68003**
  **Innovative Applications of Artificial Intelligence** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**
**Dictionary:**
  **Artificial intelligence** *see* **Raynor, William J., Jr.**
**KI-99: advances in artificial intelligence** ★ KI-99: advances in artificial intelligence. **2001c:68006**
**Lecture Notes in Computer Science** ★ KI-99: advances in artificial intelligence. **2001c:68006**
— ★ Advances in artificial intelligence. **2001e:68003**
— ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
**MICAI 2000: advances in artificial intelligence** ★ MICAI 2000: advances in artificial intelligence. **2001e:68010**
**Montreal, QC** ★ Advances in artificial intelligence. **2001e:68003**
**Proceedings:**
  **AAAI-2000/IAAI-2000** ★ AAAI-2000/IAAI-2000 Proceedings. **2001h:68007**

## 68T01 General

**Cunningham, R. J.** Towards an axiomatic theory of consciousness. (English summary) (*see* **2001j:03003**)
**Hernández-Orallo, J.** Beyond the Turing test. (English summary) (*see* **2001e:68004**)
**Linhares, Alexandre** A glimpse at the metaphysics of Bongard problems. (English summary)
**Scheutz, Matthias** Implementation: computationalism's weak spot. (English and German summaries)

Items with secondary classifications in 68T01

**(Akman, Varol)** *see* **Alan Turing and artificial intelligence, 2001e:68004**
**(Blackburn, Patrick)** *see* **Alan Turing and artificial intelligence, 2001e:68004**
**Gaifman, Haim** What Gödel's incompleteness result does and does not show.
**George, Alexander** (*with* Velleman, Daniel J.) Leveling the playing field between mind and machine. A reply to S. McCall: "Can a Turing machine know that the Gödel sentence is true?" [J. Philos. **96** (1999), no. 10, 525–532; 1718774].
**Lerda, Francesco** My meeting with Tricomi's scientific personality: from differential equations to artificial intelligence. **2001e:34035**
**(McCall, Storrs)** *see* **George, Alexander**
**Tamburrini, Guglielmo** Mechanistic theories in cognitive science: the import of Turing's thesis.
**Tegmark, Max** Why the brain is probably not a quantum computer. (English summary) **2001h:92016**
**(Turing, Alan)** *see* **Alan Turing and artificial intelligence, 2001e:68004**
**Velleman, Daniel J.** *see* **George, Alexander**

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**Alan Turing and artificial intelligence** ★ Alan Turing and artificial intelligence. **2001e:68004**
**Special Issue:**
  **Alan Turing and artificial intelligence** ★ Alan Turing and artificial intelligence. **2001e:68004**

## 68T05 Learning and adaptive systems [see also 68Q32, 91E40]

**Adamopoulos, Miltiadis** *see* **Kofidis, Nikos et al., 2001c:68109**
**Aho, Isto** (*with* Kemppainen, Harri; Koskimies, Kai; Mäkinen, Erkki; Niemi, Tapio) Searching neural network structures with L systems and genetic algorithms. (English summary)
**Aladjov, Hristo T.** *see* **Langova-Orozova, Daniela A. et al.**
**Alimi, Adel M.** (*with* Hassine, Radhia; Selmi, Mohamed Ben Amor) Beta fuzzy logic systems: approximation properties in the SISO case. (English summary) (*see* **2001h:68006**)
**Allenberg, Chamy** Individual sequence prediction—upper bounds and application for complexity. (English summary) (*see* **2001i:68008**)
**An, Kai** *see* **Xing, Jin Sheng et al.**
**Anthony, Martin** (*with* Holden, Sean B.) Cross-validation for binary classification by real-valued functions: theoretical analysis. (English summary) (*see* **2001i:68007**)
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**Bled** ★ Inductive logic programming. **2001b:68007**
**Conference:**
**Algorithmic Learning Theory** ★ Algorithmic learning theory. **2001f:68006**
**Computational Learning Theory** ★ Eleventh Annual Conference on Computational Learning Theory. **2001d:68007**
**Inductive logic programming** ★ Inductive logic programming. **2001b:68007**
**Lecture Notes in Computer Science** ★ Inductive logic programming. **2001b:68007**
— ★ Algorithmic learning theory. **2001f:68006**
**Madison, WI** ★ Proceedings of the Eleventh Annual Conference on Computational Learning Theory. **2001i:68007**
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— ★ Proceedings of the Twelfth Annual Conference on Computational Learning Theory. **2001i:68008**
**Santa Cruz, CA** ★ Proceedings of the Twelfth Annual Conference on Computational Learning Theory. **2001i:68008**

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**Special Issue:**
**Abductive logic programming** ★ Abductive logic programming. **2001b:68002**
**Sydney** ★ Algorithmic learning theory.
**Tokyo** ★ Algorithmic learning theory. **2001f:68006**
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**Algorithmic Learning Theory** ★ Algorithmic learning theory.
**Inductive Logic Programming** ★ Inductive logic programming. **2001b:68007**

## 68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30.}

**Asano, Tetsuo** (*with* Katoh, Naoki; Tokuyama, Takeshi) A unified scheme for detecting fundamental curves in binary edge images. (English summary) **2001m:68150**
**Borisova, I. A.** *see* **Zagorulko, N. G. et al.**
**Duch, Włodzisław** Similarity-based methods: a general framework for classification, approximation and association. (English summary)
**Duda, Richard O.** (*with* Hart, Peter E.; Stork, David G.) ★ Pattern classification. **2001k:68120**
**D'yakonov, A. G.** On the choice of a system of support sets for the effective realization of recognition algorithms of the type for computing estimates. (Russian)
— On the choice of a system of support sets for the efficient realization of recognition algorithms of the estimate computation type. (Russian. Russian summary)
**Groenen, Patrick J. F.** (*with* Jajuga, Krzysztof) Fuzzy clustering with squared Minkowski distances. (English summary)
**Hadjitodorov, S. T.** A $F$-operator intuitionistic fuzzy version of the nearest neighbor classifier. (English summary)
**Hart, Peter E.** *see* **Duda, Richard O. et al., 2001k:68120**
**Ignat'ev, N. A.** Recognizing systems based on the method of linear hulls. (Russian. Russian summary)
**Izquierdo Macana, Ebroul** On the epipolar geometry in stereo vision. (English summary) (*see* **2001c:90006**)
**Jajuga, Krzysztof** *see* **Groenen, Patrick J. F.**
**Katoh, Naoki** *see* **Asano, Tetsuo et al., 2001m:68150**
**Lbov, G. S.** (*with* Startseva, N. G.) ★ Логические решающие функции и вопросы статистической устойчивости решений. (Russian. Russian summary) [Logical decision functions and problems of the statistical stability of decisions] **2001e:68155**
**Li, Song Yi** *see* **Zhou, Fei Ya et al.**
**Luo, Li Min** *see* **Zhou, Fei Ya et al.**
**Mangasarian, Olvi L.** (*with* Musicant, David R.) Data discrimination via nonlinear generalized support vector machines. (English summary) (*see* **2001i:90004**)
**Mashtalir, V. P.** (*with* Shlyakhov, V. V.; Yakovlev, S. V.) Properties of multivalued mappings in recognition problems. (Russian. English summary)
**Musicant, David R.** *see* **Mangasarian, Olvi L., (2001i:90004)**
**Panas, Stavros M.** *see* **Tolias, Yannis A. et al.**
**Petunin, Yu. I.** (*with* Rublev, B. V.) Pattern recognition with the help of quadratic discriminant functions. (English summary) **2001h:68133**
**Pop, Horia F.** Improvements of the fuzzy cross-clustering algorithm. (English summary)
**Ramoni, Marco** (*with* Sebastiani, Paola) Robust Bayes classifiers. (English summary)
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**Rudakov, K. V.** (*with* Vorontsov, K. V.) On optimization and monotone correction methods in an algebraic approach to the recognition problem. (Russian) **2001c:68111**
**Sebastiani, Paola** *see* **Ramoni, Marco**
**Shih, Hsing-Mei** *see* **Yang, Miin-Shen, 2001m:68152**
**Shlyakhov, V. V.** *see* **Mashtalir, V. P. et al.**
**Skubalska-Rafajłowicz, Ewa** One-dimensional Kohonen LVQ nets for multidimensional pattern recognition. (English summary) (*see* **2001h:68006**)
**Startseva, N. G.** *see* **Lbov, G. S., 2001e:68155**
**Stork, David G.** *see* **Duda, Richard O. et al., 2001k:68120**
**Sunina, I. N.** *see* **Zagorulko, N. G. et al.**
**Tkemaladze, N.** Unsupervised classification of objects. (English summary)
**Tokuyama, Takeshi** *see* **Asano, Tetsuo et al., 2001m:68150**
**Tolias, Yannis A.** (*with* Panas, Stavros M.; Tsoukalas, Lefteri H.) Generalized fuzzy indices for similarity matching. (English summary)
**Tsoukalas, Lefteri H.** *see* **Tolias, Yannis A. et al.**
**Vorontsov, K. V.** *see* **Rudakov, K. V., 2001c:68111**
**Woeginger, Gerhard J.** The reconstruction of polyominoes from their orthogonal projections. (English summary) **2001m:68151**
**Yakovlev, S. V.** *see* **Mashtalir, V. P. et al.**
**Yang, Miin-Shen** (*with* Shih, Hsing-Mei) Cluster analysis based on fuzzy relations. (English summary) **2001m:68152**
**Yu, Wen Xue** *see* **Zhou, Fei Ya et al.**
**Zagorulko, N. G.** Compactness and $\lambda$-compactness hypotheses in data analysis methods. (Russian. Russian summary) **2001h:68134**
— (*with* Borisova, I. A.; Sunina, I. N.) Taxonomy and recognition in $\lambda$-spaces using conceptors. (Russian. Russian summary)
**Zhou, Fei Ya** (*with* Li, Song Yi; Yu, Wen Xue; Luo, Li Min) An efficient method of computation of Legendre moments. (Chinese. English and Chinese summaries)

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**Bai, Yi** *see* **Bao, Xu Dong et al.**
**Bao, Xu Dong** (*with* Bai, Yi; Fu, Yao; Zhou, Fei Ya; Luo, Li Min) A fast algorithm for computing 3D orthogonal moments. (Chinese. English and Chinese summaries)
**(Bock, Hans-Hermann)** *see* **Analysis of symbolic data, 2001g:62004**
**Boyer, Elizabeth D.** (*with* Lister, Liza; Shader, Bryan L.) Sphere-of-influence graphs using the sup-norm. (English summary) **2001k:05169**
**Bradley, P. S.** (*with* Mangasarian, Olvi L.) $k$-plane clustering. (English summary) **2001g:90095**
**Dahlhaus, Elias** Parallel algorithms for hierarchical clustering and applications to split decomposition and parity graph recognition. (English summary) **2001b:68154**
**(Diday, Edwin)** *see* **Analysis of symbolic data, 2001g:62004**
**Fu, Yao** *see* **Bao, Xu Dong et al.**
**Gupal, A. M.** *see* **Vagis, G. A. et al.**
**Hoppensteadt, Frank C.** (*with* Izhikevich, E. M.) Synchronization of MEMS resonators and mechanical neurocomputing. (English summary) **2001m:68148**
**Izhikevich, E. M.** *see* **Hoppensteadt, Frank C., 2001m:68148**
**Kamimura, Hideki** (*with* Kurano, Masami) Clustering by a fuzzy metric. (English summary)
**Kovačević, Branko** *see* **Marković, Milan et al.**
**Kozlov, V. N.** A visual pattern, mathematical approaches to a definition of this pattern, and image recognition. (Russian. Russian summary) **2001a:65022**
**Kurano, Masami** *see* **Kamimura, Hideki**
**Lister, Liza** *see* **Boyer, Elizabeth D. et al., 2001k:05169**
**Luo, Li Min** *see* **Bao, Xu Dong et al.**
**Mangasarian, Olvi L.** *see* **Bradley, P. S., 2001g:90095**
**Marković, Milan** (*with* Milosavljević, Milan; Kovačević, Branko) On evaluating a class of frame-based nonstationary pattern recognition methods using Bhattacharyya distance. (English summary)
**Milosavljević, Milan** *see* **Marković, Milan et al.**
**Sergienko, I. V.** *see* **Vagis, G. A. et al.**
**Shader, Bryan L.** *see* **Boyer, Elizabeth D. et al., 2001k:05169**
**Sugihara, Kokichi** "Impossible objects" are not necessarily impossible—mathematical study on optical illusion. (English summary) (*see* **2001e:68008**)
**Thiele, Helmut** On similarity-based fuzzy clusterings. (*see* **2001f:03012**)
**Vagis, G. A.** (*with* Gupal, A. M.; Sergienko, I. V.) Efficiency of the Bayesian recognition procedure. (Russian. English and Ukrainian summaries)
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## 68T15 Theorem proving (deduction, resolution, etc.) [see also 03B35]

**Arai, Noriko H.** (*with* Masukawa, Ryuji) How to find symmetries hidden in combinatorial problems. (English summary) (*see* **2001j:68008**)
**Aravindan, Chandrabose** (*with* Baumgartner, Peter) Theorem proving techniques for view deletion in databases. (English summary) **2001b:68111**
**Archer, Myla** TAME: using PVS strategies for special-purpose theorem proving. (English summary)
**Avellone, Alessandro** (*with* Benini, Marco; Moscato, Ugo) How to avoid the formal verification of a theorem prover. (English summary) **2001k:68121**
**Bachmair, Leo** (*with* Ganzinger, Harald) Equational reasoning in saturation-based theorem proving. **2001b:68112**
**Bancerek, Grzegorz** Development of the theory of continuous lattices in Mizar. (English summary) (*see* **2001j:68008**)
**Barthe, Gilles** (*with* van Raamsdonk, Femke) Constructor subtyping in the calculus of inductive constructions. (English summary) (*see* **2001f:68010**)
**Baumgartner, Peter** ★ Theory reasoning in connection calculi. (English summary) **2001c:68112**
— *see also* **Aravindan, Chandrabose, 2001b:68111**
**Beckert, Bernhard** Rigid $E$-unification. **2001a:68080**
**Belinfante, Johan Gijsbertus Frederik** Computer proofs in Gödel's class theory with equational definitions for composite and cross. (English summary) **2001d:68189**
**Benini, Marco** *see* **Avellone, Alessandro et al., 2001k:68121**
**Bonacina, Maria Paola** A model and a first analysis of distributed-search contraction-based strategies. (English summary) **2001d:68190**
**Brüning, Stefan** (*with* Schaub, Torsten H.) Avoiding non-ground variables. (English summary) (*see* **2001b:68009**)
**Buchberger, Bruno** (*with* Dupré, Claudio; Jebelean, Tudor; Kriftner, Franz; Nakagawa, Koji; Văsaru, Daniela; Windsteiger, Wolfgang) The THEOREM∀ project: a progress report. (English summary) (*see* **2001j:68008**)
**Bundy, Alan** *see* **Dennis, L. A. et al.**
**Caprotti, Olga** (*with* Oostdijk, Martijn) How to formally and efficiently prove Prime(2999). (English summary) (*see* **2001j:68008**)
**Chandru, Vijaya** (*with* Hooker, John N.) ★ Optimization methods for logical inference. (English summary) **2001j:68105**
**Dahn, Bernd Ingo** Interpretation of a Mizar-like logic in first order logic. (*see* **2001f:03008**)
**De Giovanni, Francesco** (*with* Landolfi, Tommaso) Automated theorem-proving. (Italian) **2001g:68087**
**Dennis, L. A.** (*with* Bundy, Alan; Green, Ian) Making a productive use of failure to generate witnesses for coinduction from divergent proof attempts. (English summary)
**Denzinger, Jörg** (*with* Schulz, Stephan) Automatic acquisition of search control knowledge from multiple proof attempts. (English summary) (*see* **2001g:68002**)
**Dupré, Claudio** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Egly, Uwe** (*with* Rath, Thomas) Practically useful variants of definitional translations to normal form. (English summary) (*see* **2001g:68002**)
**Fèvre, Stéphane** (*with* Wang, Dongming) Combining Clifford algebraic computing and term-rewriting for geometric theorem proving. (English summary) **2001b:68113**
**Fleuriot, Jacques D.** (*with* Paulson, Lawrence C.) Proving Newton's Propositio Keplerian using geometry and nonstandard analysis in Isabelle. (English summary) (*see* **2001c:68004**)
**Forcheri, Paola** (*with* Gentilini, Paolo; Molfino, Maria Teresa) Informational logic in knowledge representation and automated deduction. (English summary) **2001h:68135**
**Ganzinger, Harald** *see* **Bachmair, Leo, 2001b:68112**
**Gao, Xiao-Shan** Search methods revisited.
**Gentilini, Paolo** *see* **Forcheri, Paola et al., 2001h:68135**
**Giunchiglia, Fausto** (*with* Pecchiari, P.; Talcott, C.) Reasoning theories: toward an architecture for open mechanized reasoning systems. (English summary)
**Gordon, Mike** From LCF to HOL: a short history. (*see* **2001c:68009**)

**Green, Ian** *see* **Dennis, L. A. et al.**
**Hooker, John N.** *see* **Chandru, Vijaya, 2001j:68105**
**Hurd, Joe** Congruence classes with logic variables. (English summary) **2001k:68122**
**Hustadt, Ullrich** *see* **de Nivelle, Hans et al., 2001d:68192**
**Hutter, Dieter** Annotated reasoning. (English summary)
— (*with* Kohlhase, Michael) Managing structural information by higher-order colored unification. (English summary) **2001c:68113**
**Jebelean, Tudor** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Kohlhase, Michael** Higher-order automated theorem proving. **2001c:68114**
— *see also* **Hutter, Dieter, 2001c:68113**
**Kolbe, Thomas** *see* **Walther, Christoph, (2001g:68002)**
**Kriftner, Franz** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Landolfi, Tommaso** *see* **De Giovanni, Francesco, 2001g:68087**
**Li, Yon Bing** An expanding WE algorithm for mechanical geometry theorem proving. (Chinese. English and Chinese summaries) **2001d:68191**
**Liu, Zhuo-Jun** *see* **Wu, Jinzhao, 2001d:68194**
**Luo, Zhaohui** Coercive subtyping. (English summary) **2001e:68156**
**Manolios, Panagiotis** (*with* Moore, J. Strother) On the desirability of mechanizing calculational proofs. (English summary) (*see* **2001i:68012**)
**Masukawa, Ryuji** *see* **Arai, Noriko H., (2001j:68008)**
**Mathieu, Philippe** *see* **Roussel, Olivier, 2001k:68123**
**Molfino, Maria Teresa** *see* **Forcheri, Paola et al., 2001h:68135**
**Moore, J. Strother** *see* **Manolios, Panagiotis, (2001i:68012)**
**Moscato, Ugo** *see* **Avellone, Alessandro et al., 2001k:68121**
**Moten, Roderick** Just the facts, Jack: truths and myths of automated theorem provers. **2001b:68114**
**Nakagawa, Koji** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Nipkow, Tobias** More Church-Rosser proofs (in Isabelle/HOL). (English summary) **2001i:68147**
**de Nivelle, Hans** (*with* Schmidt, Renate A.; Hustadt, Ullrich) Resolution-based methods for modal logics. (English summary) **2001d:68192**
**Okushi, Fumiaki** Parallel cooperative propositional theorem proving. (English summary) **2001a:68081**
**Oostdijk, Martijn** *see* **Caprotti, Olga, (2001j:68008)**
**Padmanabhan, R.** (*with* Penner, P.) A hyperbase for binary lattice hyperidentities. (English summary) **2001b:68115**
**Park, Tai Joon** (*with* Van Gelder, Allen) Partitioning methods for satisfiability testing on large formulas. (English summary) (*see* **2001g:68002**)
**Paulson, Lawrence C.** *see* **Fleuriot, Jacques D., (2001c:68004)**
**Pecchiari, P.** *see* **Giunchiglia, Fausto et al.**
**Penner, P.** *see* **Padmanabhan, R., 2001b:68115**
**Petermann, Uwe** Connection calculus theorem proving with multiple built-in theories. (English summary) **2001b:68116**
**Plaisted, David A.** (*with* Zhu, Yunshan) Replacement rules with definition detection. (English summary) (*see* **2001f:03008**)
— Special cases and substitutes for rigid $E$-unification. (English summary) **2001f:68118**
— (*with* Zhu, Yunshan) Ordered semantic hyper-linking. (English summary) **2001f:68119**
**van Raamsdonk, Femke** *see* **Barthe, Gilles, (2001f:68010)**
**Rath, Thomas** *see* **Egly, Uwe, (2001g:68002)**
**Roussel, Olivier** (*with* Mathieu, Philippe) The achievement of knowledge bases by cycle search. (English summary) **2001k:68123**
**Schaub, Torsten H.** *see* **Brüning, Stefan, (2001b:68009)**
**Schmidt, Renate A.** *see* **de Nivelle, Hans et al., 2001d:68192**
**Schulz, Stephan** *see* **Denzinger, Jörg, (2001g:68002)**
**Shao, Zhiqing** (*with* Sun, Yongqiang; Song, Guoxin; Yu, Huiqun) Deciding quasi-reducibility using witnessed test sets. (English summary) **2001d:68193**
**Song, Guoxin** *see* **Shao, Zhiqing et al., 2001d:68193**
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**Talcott, C.** *see* **Giunchiglia, Fausto et al.**
**Van Gelder, Allen** *see* **Park, Tai Joon, (2001g:68002)**
**Văsaru, Daniela** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Vlada, Marin** Complexity of the unification algorithms. (English summary) **2001h:68136**
**Walther, Christoph** (*with* Kolbe, Thomas) On terminating lemma speculations. (English summary) (*see* **2001g:68002**)
**Wang, Dongming** *see* **Fèvre, Stéphane, 2001b:68113**
**Windsteiger, Wolfgang** *see* **Buchberger, Bruno et al., (2001j:68008)**
**Wu, Jinzhao** (*with* Liu, Zhuo-Jun) Linear strategy for Boolean ring based theorem proving. (English summary) **2001d:68194**
**Wu, Wen-tsün** Automatic geometry theorem-proving and automatic geometry problem-solving. (*see* **2001c:68004**)
**Yu, Huiqun** *see* **Shao, Zhiqing et al., 2001d:68193**
**Zhu, Yunshan** *see* **Plaisted, David A., 2001f:68119** *and* **(2001f:03008)**

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**Lecture Notes in Computer Science** *see* **Baumgartner, Peter, 2001c:68112**

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**Adams, Andrew A.** Definite integration of parametric rational functions: applying a DITLU. (English summary) (*see* **2001j:68008**)
**Amor Montaño, José Alfredo** (*with* Miranda Perea, Favio Ezequiel) Automatic theorem proving and OTTER. (Spanish. Spanish summary) **2001e:03027**
**Andreoli, Jean-Marc** Focussing and proof construction. (English summary) **2001m:68021**
**Anisimova, I. N.** (*with* Bratchikov, I. L.) A formal grammatical model of the resolution method for the propositional calculus. (English summary)
**Arts, Thomas** (*with* Giesl, Jürgen) Termination of term rewriting using dependency pairs. (English summary) **2001i:68082**
**Baaz, Matthias** (*with* Leitsch, Alexander) Cut-elimination and redundancy-elimination by resolution. (English summary) **2001h:03111**
**Baumgartner, Peter** (*with* Horton, J. D.; Spencer, Bruce) Merge path improvements for minimal model hyper tableaux. (English summary) **2001d:03026**
**Beckert, Bernhard** Equality and other theories.
**Benzinger, Ralph** Automated complexity analysis of Nuprl extracted programs. (English summary)
**Berger, Ulrich** (*with* Schwichtenberg, Helmut; Seisenberger, Monika) The Warshall algorithm and Dickson's lemma: two examples of realistic program extraction. (English summary) **2001k:68016**
**Blaga, Alin** Gröbner bases for theorem proving in Euclidean geometry. (English summary)
**Blanco Silva, Francisco Javier** Automatic proof of a geometric theorem. (Spanish. English summary) (*see* **2001k:00018**)
**(Bonacina, Maria Paola)** *see* **Advances in first-order theorem proving, 2001a:03003**
**Boudet, Alexandre** Unification of higher-order patterns modulo simple syntactic equational theories. (English summary) **2001a:03023**
**Boy de la Tour, Thierry** (*with* Fèvre, Stéphane; Wang, Dongming) Clifford term rewriting for geometric reasoning in 3D. (English summary) (*see* **2001c:68004**)
**Bratchikov, I. L.** *see* **Anisimova, I. N.**
**Bry, François** (*with* Yahya, Adnan) Positive unit hyperresolution tableaux and their application to minimal model generation. (English summary) **2001d:03028**
**Bundy, Alan** *see* **Jamnik, Mateja et al., 2001i:03027**
**Caferra, Ricardo** (*with* Peltier, Nicolas) Combining enumeration and deductive techniques in order to increase the class of constructible infinite models. (English summary) **2001e:03028**
— *see also* **Automated deduction in classical and non-classical logics, 2001f:03008**
**Cattell, Kevin** (*with* Dinneen, Michael J.; Downey, Rodney G.; Fellows, Michael R.; Langston, Michael A.) On computing graph minor obstruction sets. (English summary) **2001a:05136**
**Cervesato, Iliano** (*with* Hodas, Joshua S.; Pfenning, Frank) Efficient resource management for linear logic proof search. (English summary) **2001b:03063**
**Chou, Shang-Ching** (*with* Lin, Dong-Dai) Wu's method for automated geometry theorem proving and discovering.
**Comon, Hubert** (*with* Nieuwenhuis, Robert) Induction = I-axiomatization + first-order consistency. (English summary) **2001d:68154**
**Constable, Robert L.** (*with* Jackson, Paul B.; Naumov, Pavel; Uribe, Juan) Constructively formalizing automata theory. **2001k:68066**
**Davydov, G. V.** (*with* Davydova, I. M.) Measure of formulas: calculation and a polynomial class for satisfiability. (English summary)
**Davydova, I. M.** *see* **Davydov, G. V.**
**Dickert, Volker** (*with* Matiyasevich, Yu. V.; Muscholl, Anca) Solving word equations modulo partial commutations. (English summary) **2001g:03023**
**Dinneen, Michael J.** *see* **Cattell, Kevin et al., 2001a:05136**
**Dolzmann, Andreas** Solving geometric problems with real quantifier elimination. (English summary) (*see* **2001c:68004**)
**Downey, Rodney G.** *see* **Cattell, Kevin et al., 2001a:05136**
**Egly, Uwe** Cuts in tableaux. **2001e:03029**
**Farmer, William M.** (*with* Guttman, Joshua D.) A set theory with support for partial functions. (English summary) **2001m:03027**
— STMM: a set theory for mechanized mathematics. (English summary) **2001m:03028**
**Fearnley-Sander, Desmond** Plane Euclidean reasoning. (English summary) (*see* **2001c:68004**)
**Fellows, Michael R.** *see* **Cattell, Kevin et al., 2001a:05136**
**Feng, Guo-chen** *see* **Yang, Haiquan et al., 2001d:03036**
**Fermüller, Christian G.** Implicational completeness of signed resolution. (*see* **2001f:03008**)
**Fèvre, Stéphane** *see* **Boy de la Tour, Thierry et al., (2001c:68004)**
**Formato, Ferrante** (*with* Gerla, Giangiacomo; Sessa, Maria I.) Similarity-based unification. (English summary) **2001e:03030**
**Formisano, Andrea** (*with* Omodeo, Eugenio G.) An equational re-engineering of set theories. (English summary) (*see* **2001f:03008**)
**Fuchs, Marc** Controlled use of clausal lemmas in connection tableau calculi. (English summary) **2001c:03024**
**(Furbach, Ulrich)** *see* **Advances in first-order theorem proving, 2001a:03003**
**Galmiche, D.** Connection methods in linear logic and proof nets construction. (English summary) **2001e:03031**
**(Gao, Xiao-Shan)** *see* **Automated deduction in geometry, 2001c:68004**
**Gavilanes-Franco, Antonio** *see* **Martín de Calle, Pedro Jesús et al., 2001c:03025**
**Geisler, Tim** *see* **Schütz, Heribert, (2001g:68002)**
**Gerla, Giangiacomo** *see* **Formato, Ferrante et al., 2001e:03030**
**Giesl, Jürgen** Induction proofs with partial functions. (English summary) **2001k:03020**
— *see also* **Arts, Thomas, 2001i:68082**
**Giunchiglia, Fausto** (*with* Sebastiani, Roberto) Building decision procedures for modal logics from propositional decision procedures: the case study of modal $K(m)$. (English summary) **2001j:03031**
**Gnaedig, Isabelle** *see* **Kirchner, Hélène, (2001i:68004)**
**Green, Ian** *see* **Jamnik, Mateja et al., 2001i:03027**
**Guo, Qing** *see* **Nie, Xumin**
**Guttman, Joshua D.** *see* **Farmer, William M., 2001m:03027**
**Helman, Paul** (*with* Veroff, Robert) The application of automated reasoning to formal models of combinatorial optimization. (English summary)
**Hermann, Miki** (*with* Kolaitis, Phokion G.) Unification algorithms cannot be combined in polynomial time. (English summary) **2001k:68048**
**Hirokawa, Sachio** (*with* Nagano, Daisuke) Long normal form proof search and counter-model generation. (English summary) (*see* **2001i:68005**)
**Hodas, Joshua S.** *see* **Cervesato, Iliano et al., 2001b:03063**
**Horton, J. D.** *see* **Spencer, Bruce, 2001c:03026** *and* **Baumgartner, Peter et al., 2001d:03026**
**Hou, Xiaorong** Proving by examples.
— *see also* **Yang, Lu et al., (2001c:68004)**
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**London** ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
**Neuro-fuzzy and soft computing** ★ Neuro-fuzzy and soft computing. **2001h:68006**
**Orlando, FL** ★ Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference. **2001a:68007**
**Pamplona** ★ Fuzzy logic and fuzzy technology. **2001b:68006**
— ★ 8th Spanish Congress on Fuzzy Logic and Technology. **2001d:68008**
**Practical applications of computational intelligence techniques** ★ Practical applications of computational intelligence techniques.
**Reasoning with imprecise probabilities** ★ Reasoning with imprecise probabilities. **2001a:68006**
**Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference** ★ Selected papers from the Special Track on Uncertainty at the 12th International FLAIRS Conference. **2001a:68007**
**Symbolic and quantitative approaches to reasoning and uncertainty** ★ Symbolic and quantitative approaches to reasoning and uncertainty. **2001b:68009**
**Symposium:**
**Imprecise Probabilities** ★ Reasoning with imprecise probabilities. **2001a:68006**
**Zakopane** ★ Neuro-fuzzy and soft computing. **2001h:68006**

## 68T40 Robotics [see also 93C85]

**Aguirre, Eugenio** (*with* González Muñoz, Antonio) Fuzzy behaviors for mobile robot navigation: design, coordination and fusion. (English summary)
**Angluin, Dana** (*with* Westbrook, Jeffery R.; Zhu, Wenhong) Robot navigation with distance queries. (English summary) **2001f:68126**
— *see also* **Wongngamnit, Chinda, 2001k:68134**
**Bajcsy, R.** *see* **Hicks, R. A. et al., 2001e:68170**
**Brown, Russell Gregory** (*with* Donald, B. R.) Mobile robot self-localization without explicit landmarks. (English summary) **2001f:68127**
**Butler, Zack J.** (*with* Rizzi, Alfred A.; Hollis, Ralph L.) Complete distributed coverage of rectilinear environments. (English summary)
**Daniilidis, Kostas** *see* **Hicks, R. A. et al., 2001e:68170**
**Donald, B. R.** *see* **Brown, Russell Gregory, 2001f:68127**
**Flocchini, Paola** (*with* Prencipe, Giuseppe; Santoro, Nicola; Widmayer, Peter) Hard tasks for weak robots: the role of common knowledge in pattern formation by autonomous mobile robots. (English summary) (*see* **2001f:68007**)
**German, O. V.** (*with* Semeryuk, D. V.) A polynomially solvable problem of the synthesis of the behavior of an intelligent robot. (Russian. Russian summary) **2001m:68164**
**Ghrist, Robert W.** *see* **Klavins, E. et al.**
**González Muñoz, Antonio** *see* **Aguirre, Eugenio**
**Guibas, Leonidas J.** *see* **Nguyen, An et al.**
**Halperin, Dan** (*with* Kavraki, Lydia E.; Latombe, Jean-Claude) Robot algorithms. (*see* **2001f:68001**)
**Hicks, R. A.** (*with* Pettey, David J.; Daniilidis, Kostas; Bajcsy, R.) Closed form solutions for reconstruction via complex analysis. (English summary) **2001e:68170**
**Hollis, Ralph L.** *see* **Butler, Zack J. et al.**
**Hu, Zhan Yi** (*with* Lei, Cheng; Tsui, Hung Tat) Robot self-location by line correspondences. (English summary) **2001k:68133**
**Kaneko, Makoto[2]** (*with* Tsuji, Toshio) Pulling motion based tactile sensing. (English summary)
**Kavraki, Lydia E.** *see* **Halperin, Dan et al., (2001f:68001)**
**Klavins, E.** (*with* Koditschek, D. E.; Ghrist, Robert W.) Toward the regulation and composition of cyclic behaviors. (English summary)
**Koditschek, D. E.** *see* **Klavins, E. et al.**
**Latombe, Jean-Claude** *see* **Halperin, Dan et al., (2001f:68001)**
**LaValle, Steven M.** Robot motion planning: a game-theoretic foundation. (English summary) **2001a:68100**
**Lei, Cheng** *see* **Hu, Zhan Yi et al., 2001k:68133**
**Nguyen, An** (*with* Guibas, Leonidas J.; Yim, Mark) Controlled module density helps reconfiguration planning. (English summary)
**Pettey, David J.** *see* **Hicks, R. A. et al., 2001e:68170**
**Prencipe, Giuseppe** *see* **Flocchini, Paola et al., (2001f:68007)**
**Rizzi, Alfred A.** *see* **Butler, Zack J. et al.**
**Santoro, Nicola** *see* **Flocchini, Paola et al., (2001f:68007)**
**Semeryuk, D. V.** *see* **German, O. V., 2001m:68164**
**Tsui, Hung Tat** *see* **Hu, Zhan Yi et al., 2001k:68133**
**Tsuji, Toshio** *see* **Kaneko, Makoto[2]**
**Westbrook, Jeffery R.** *see* **Angluin, Dana et al., 2001f:68126**
**Widmayer, Peter** *see* **Flocchini, Paola et al., (2001f:68007)**
**Wongngamnit, Chinda** (*with* Angluin, Dana) Robot localization in a grid. **2001k:68134**
**Xi, Yu Geng** *see* **Zhang, Chungang**
**Yim, Mark** *see* **Nguyen, An et al.**
**Zhang, Chungang** (*with* Xi, Yu Geng) Robot path planning in globally unknown environments based on rolling windows. (English summary)
**Zhu, Wenhong** *see* **Angluin, Dana et al., 2001f:68126**

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**Agarwal, Pankaj K.** (*with* Basch, Julien; Guibas, Leonidas J.; Hershberger, John; Zhang, Li) Deformable free space tilings for kinetic collision detection. (English summary)
**Basch, Julien** *see* **Agarwal, Pankaj K. et al.**
**Bicchi, Antonio** (*with* Pallottino, Lucia) Optimal planning for coordinated vehicles with bounded curvature. (English summary)
**Blum, Avrim** (*with* Chalasani, Prasad) An online algorithm for improving performance in navigation. (English summary) **2001c:68061**
**Boles, W. W.** *see* **Tieng, Quang Minh, 2001d:65022**
**Burdick, Joel W.** *see* **Goodwine, Bill**
**Chalasani, Prasad** *see* **Blum, Avrim, 2001c:68061**
**Divljak, Nataša** (*with* Racković, Miloš) Planning of the trajectory for the tip of redundant robotic mechanisms in the presence of obstacles. (English summary)
**Goldberg, Kenneth Y.** *see* **van der Stappen, A. Frank et al., 2001d:70006**
**Goodwine, Bill** (*with* Burdick, Joel W.) Motion planning for kinematic stratified systems with application to quasi-static legged locomotion and finger gaiting. (English summary)
**Guibas, Leonidas J.** *see* **Agarwal, Pankaj K. et al.**
**Hershberger, John** *see* **Agarwal, Pankaj K. et al.**
**Hsu, David** (*with* Kindel, Robert; Latombe, Jean-Claude; Rock, Stephen) Randomized kinodynamic motion planning with moving obstacles. (English summary)
**Izquierdo Macana, Ebroul** On the epipolar geometry in stereo vision. (English summary) (*see* **2001c:90006**)
**Kavraki, Lydia E.** *see* **Lamiraux, Florent**
**Kindel, Robert** *see* **Hsu, David et al.**
**Lamiraux, Florent** (*with* Kavraki, Lydia E.) Positioning symmetric and non-symmetric parts using radial and constant force fields. (English summary)
**Latombe, Jean-Claude** *see* **Hsu, David et al.**
**Liao, Qizheng** Equation solving in robotics and mechanisms.
**Mishra, Bhubaneswar** *see* **Teichmann, M., 2001c:70003**
**Overmars, Mark H.** *see* **van der Stappen, A. Frank et al., 2001d:70006**
**Pallottino, Lucia** *see* **Bicchi, Antonio**
**Panaite, Petrişor** (*with* Pelc, Andrzej) Impact of topographic information on graph exploration efficiency. (English summary) **2001m:68190**
**Pelc, Andrzej** *see* **Panaite, Petrişor, 2001m:68190**
**Racković, Miloš** *see* **Divljak, Nataša**
**Reif, John H.** (*with* Wang, Hongyan) Nonuniform discretization for kinodynamic motion planning and its applications. (English summary) **2001a:70008**
**Rock, Stephen** *see* **Hsu, David et al.**
**van der Stappen, A. Frank** (*with* Goldberg, Kenneth Y.; Overmars, Mark H.) Geometric eccentricity and the complexity of manipulation plans. (English summary) **2001d:70006**
**Teichmann, M.** (*with* Mishra, Bhubaneswar) Probabilistic algorithms for efficient grasping and fixturing. (English summary) **2001c:70003**
**Tieng, Quang Minh** (*with* Boles, W. W.) Space curve representation and recognition based on wavelet transform zero-crossings. (English summary) **2001d:65022**
**Wang, Hongyan** *see* **Reif, John H., 2001a:70008**
**Zhang, Li** *see* **Agarwal, Pankaj K. et al.**

## 68T45 Machine vision and scene understanding

**Balakrishnan, Venkataramanan** *see* **Chang, Chu-Yin et al., 2001m:68165**

**Barron, John L.** *see* **Beauchemin, Steven S., 2001e:68171**
**Bayro-Corrochano, Eduardo** (*with* Daniilidis, Kostas; Sommer, Gerald) Motor algebra for 3D kinematics: the case of the hand-eye calibration. (English summary) **2001k:68135**
**Beauchemin, Steven S.** (*with* Barron, John L.) On discontinuous optical flow. (English summary) **2001e:68171**
**Bruckstein, Alfred M.** *see* **Yanovski, Vladimir et al.**
**Casadei, Stefano** Redundancy elimination in the estimation of multiple paths. (English summary) **2001j:68123**
**Chang, Chu-Yin** (*with* Maciejewski, Anthony A.; Balakrishnan, Venkataramanan) Fast eigenspace decomposition of correlated images. (English summary) **2001m:68165**
**Cooper, Martin C.** Linear constraints for the interpretation of line drawings of curved objects. (English summary) **2001b:68135**
**Daniilidis, Kostas** *see* **Bayro-Corrochano, Eduardo et al., 2001k:68135**
**Gidas, Basilis** *see* **Mumford, David, 2001m:68166**
**Givoli, Dan** (*with* Yaacobson, Fiana S.) An adaptive finite element procedure for segmentation problems. (English summary)
**Haralick, Robert M.** Propagating covariance in computer vision. (*see* **2001d:68215**)
**Hu, Zhan Yi** *see* **Yang, Chang Jiang et al.; Li, Hua$^2$ et al.** *and* **Lei, Cheng et al.**
**Klette, Reinhard** *see* **Performance characterization in computer vision, 2001d:68215** *and* **Kozera, Ryszard, (2001d:68215)**
**Kozera, Ryszard** (*with* Klette, Reinhard) Evaluation of numerical solution schemes for differential equations. (*see* **2001d:68215**)
**Lei, Cheng** (*with* Wu, Fu Chao; Hu, Zhan Yi) A new camera self-calibration method based on active vision system. (Chinese. English and Chinese summaries)
**Li, Hua$^2$** (*with* Wu, Fu Chao; Hu, Zhan Yi) A new linear camera self-calibration technique. (Chinese. English and Chinese summaries)
**Maciejewski, Anthony A.** *see* **Chang, Chu-Yin et al., 2001m:68165**
**Mumford, David** (*with* Gidas, Basilis) Stochastic models for generic images. **2001m:68166**
**Sommer, Gerald** *see* **Bayro-Corrochano, Eduardo et al., 2001k:68135**
**(Stiehl, Siegfried H.)** *see* **Performance characterization in computer vision, 2001d:68215**
**Sun, Feng Mei** *see* **Yang, Chang Jiang et al.**
**(Viergever, Max A.)** *see* **Performance characterization in computer vision, 2001d:68215**
**(Vincken, Koen L.)** *see* **Performance characterization in computer vision, 2001d:68215**
**Wagner, Israel A.** *see* **Yanovski, Vladimir et al.**
**Wu, Fu Chao** *see* **Li, Hua$^2$ et al.** *and* **Lei, Cheng et al.**
**Yaacobson, Fiana S.** *see* **Givoli, Dan**
**Yang, Chang Jiang** (*with* Sun, Feng Mei; Hu, Zhan Yi) Planar conic based camera calibration. (Chinese. English and Chinese summaries)
**Yanovski, Vladimir** (*with* Wagner, Israel A.; Bruckstein, Alfred M.) Vertex-ant-walk—a robust method for efficient exploration of faulty graphs. (English summary)

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**Dagstuhl** ★ Performance characterizztion in computer vision. **2001d:68215**
**Meeting:**
**Theoretical Foundations of Computer Vision** ★ Performance characterization in computer vision. **2001d:68215**
**Performance characterization in computer vision** ★ Performance characterization in computer vision. **2001d:68215**

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**Bajcsy, R.** *see* **Hicks, R. A. et al., 2001e:68170**
**Barron, John L.** *see* **Beauchemin, Steven S., 2001j:68133**
**Beauchemin, Steven S.** (*with* Barron, John L.) On the Fourier properties of discontinuous motion. (English summary) **2001j:68133**
**Bison, Paolo** *see* **Sossai, Claudio et al.**
**Boles, W. W.** *see* **Tieng, Quang Minh, 2001d:65022**
**Butt, Muhammad Akmal** *see* **Maragos, Petros, 2001m:53118**
**Chemello, Gaetano** *see* **Sossai, Claudio et al.**
**Cohen, Laurent D.** *see* **Lefèbure, Martin**
**Daniilidis, Kostas** *see* **Hicks, R. A. et al., 2001e:68170**
**Guerra, Concettina** Vision and image processing algorithms. (*see* **2001f:68001**)
**Hicks, R. A.** (*with* Pettey, David J.; Daniilidis, Kostas; Bajcsy, R.) Closed form solutions for reconstruction via complex analysis. (English summary) **2001e:68170**
**Klette, Reinhard** (*with* Žunić, Joviša) Multigrid convergence of calculated features in image analysis. (English summary) **2001k:68145**
**Lefèbure, Martin** (*with* Cohen, Laurent D.) Image registration, optical flow and local rigidity. (English summary)
**Maragos, Petros** (*with* Butt, Muhammad Akmal) Curve evolution, differential morphology, and distance transforms applied to multiscale and eikonal problems. (English summary) **2001m:53118**
**Marroquin, Jose Luis** Some extensions of the spring model for image processing. (English summary) (*see* **2001f:93007**)
**Petitjean, S.** Algebraic geometry and computer vision: polynomial systems, real and complex roots. (English summary) **2001e:68197**
**Pettey, David J.** *see* **Hicks, R. A. et al., 2001e:68170**
**Peura, Markus** Attribute trees as adaptive object models in image analysis. (English summary) **2001k:68146**
**Ritter, Gerhard X.** (*with* Wilson, Joseph N.) ★ Handbook of computer vision algorithms in image algebra. (English summary) **2001h:68158**
**Schulten, Klaus** (*with* Zeller, Michael) Topology representing maps and brain function.
**Sossai, Claudio** (*with* Bison, Paolo; Chemello, Gaetano) Sequent calculus and data fusion. (English summary)
**Tannenbaum, Allen** On the eye tracking problem: a challenge for robust control. (English summary) **2001j:93030**
**Tieng, Quang Minh** (*with* Boles, W. W.) Space curve representation and recognition based on wavelet transform zero-crossings. (English summary) **2001d:65022**
**Wilson, Joseph N.** *see* **Ritter, Gerhard X., 2001h:68158**
**Zeller, Michael** *see* **Schulten, Klaus**
**Žunić, Joviša** *see* **Klette, Reinhard, 2001k:68145**

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**Handbook:**
**Computer vision algorithms in image algebra** *see* **Ritter, Gerhard X., 2001h:68158**

## 68T50 Natural language processing [see also 03B65]

**Asou, Hiroki** *see* **Lee, Jia et al., 2001i:68156**
**Atanasiu, Adrian** Translation devices. (English summary)
**Cheng, Minde** *see* **Yu, Jiangsheng, 2001b:68136**
**Dmitrieva, I. P.** On the problem of construction of a mathematical model of a language. (English summary)
**Dowty, David** Non-constituent coordination, wrapping, and multimodal categorial grammars.
**Goldsmith, John A.** Unsupervised learning of the morphology of a natural language. (English summary)
**Imai, Katsunobu** *see* **Lee, Jia et al., 2001i:68156**
**(Iwańska, Łucja M.)** *see* **Natural language processing and knowledge representation**
**Kappes, Martin** Combining contextual grammars and tree adjoining grammars. (English summary) **2001k:68136**
**Lee, Jia** (*with* Morita, Kenichi; Asou, Hiroki; Imai, Katsunobu) Uniquely parsable unification grammars and their parser implemented in Prolog. (English summary) **2001i:68156**
**(Mitkov, Ruslan)** *see* **Recent advances in natural language processing, 2001i:68157**
**Monz, Christof** (*with* de Rijke, Maarten) A tableau calculus for pronoun resolution. (English summary) (*see* **2001b:03004**)
**Morita, Kenichi** *see* **Lee, Jia et al., 2001i:68156**
**(Nicolov, Nicolas)** *see* **Recent advances in natural language processing, 2001i:68157**
**Popescu, Marius** Maximum entropy models for dependency parsing. (English summary)
**de Rijke, Maarten** *see* **Monz, Christof, (2001b:03004)**
**(Shapiro, Stuart C.)** *see* **Natural language processing and knowledge representation**
**Wolff, J. Gerard** Syntax, parsing and production of natural language in a framework of information compression by multiple alignment, unification and search. (English summary)
**Yu, Jiangsheng** (*with* Cheng, Minde) Multiple-valued feature structure description. (English and Chinese summaries) **2001b:68136**

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**Natural language processing and knowledge representation** ★ Natural language processing and knowledge representation.
**Recent advances in natural language processing** ★ Recent advances in natural language processing. II. **2001i:68157**
**Tzigov Chark** ★ Recent advances in natural language processing. II. **2001i:68157**

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**Abrusci, V. Michele** (*with* Fouqueré, Christophe; Vauzeilles, Jacqueline) Tree adjoining grammars in a fragment of the Lambek calculus. (English summary) **2001b:03031**
**Alonso Pardo, Miguel Á.** (*with* Nederhof, Mark-Jan; Villemonte de la Clergerie, Eric) Tabulation of automata for tree-adjoining languages. (English summary) **2001k:68064**
**Beaver, David** (*with* Krahmer, Emiel) A partial account of presupposition projection. (English summary) **2001m:03064**
**Böttner, Michael** Peirce grammar. (English summary)
**Cherubini, Alessandra** (*with* San Pietro, P.) Tree adjoining languages and multipushdown languages. (English summary) **2001k:68065**
**(Christodoulakis, Dimitris N.)** *see* **Natural language processing—NLP 2000, 2001c:68008**
**Dünges, Petra** Eventualities in time: the localization of eventualities in the Platonist and the reductionist picture of time. (English summary) **2001j:03055**
**Fernández, Roberto** (*with* Galves, Antonio) Identifying features in the presence of competing evidence. The case of first-language acquisition. (English summary) (*see* **2001f:37002**)
**Fouqueré, Christophe** *see* **Abrusci, V. Michele et al., 2001b:03031**
**Frank, Robert Evan** (*with* Kulick, Seth; Vijay-Shanker, K.) Monotonic c-command: a new perspective on tree adjoining grammar. (English summary) **2001m:68084**
**Galves, Antonio** *see* **Fernández, Roberto, (2001f:37002)**
**Gerasimova, I. A.** ★ Формальная грамматика и интенсиональная логика. (Russian) [Formal grammar and intensional logic]
**Godart-Wendling, Béatrice** Montague et les catégories d'Ajdukiewicz. [Montague and the categories of Ajdukiewicz] (*see* **2001c:03009**)
**Jančar, Petr** (*with* Mráz, František; Plátek, Martin; Vogel, Jörg) On monotonic automata with a restart operation. (English summary) **2001a:68056**
**Krahmer, Emiel** *see* **Beaver, David, 2001m:03064**
**Kulick, Seth** *see* **Frank, Robert Evan et al., 2001m:68084**
**Lecomte, Alain** Proof-nets, hybrid logics and minimalist representations. (English summary) **2001m:03043**
**Marcus, Solomon** Bridging linguistics and computer science, via mathematics. (*see* **2001b:68032**)
**Mateus, Paulo** *see* **Pinto, Javier et al., (2001a:68007)**
**Miller, Philip H.** ★ Strong generative capacity. (English summary) **2001c:68002**
**(Moss, Lawrence S.)** *see* **Meeting: Mathematics of Language, 2001i:68006**
**Mráz, František** *see* **Jančar, Petr et al., 2001a:68056**
**Müller, Martin$^2$** (*with* Niehren, Joachim; Podelski, Andreas) Ordering constraints over feature trees. (English summary) **2001c:68115**
**—** (*with* Niehren, Joachim) Ordering constraints over feature trees expressed in second-order monadic logic. (English summary) **2001e:68162**
**Nederhof, Mark-Jan** *see* **Alonso Pardo, Miguel Á. et al., 2001k:68064**
**Niehren, Joachim** *see* **Müller, Martin$^2$ et al., 2001c:68115** *and* **2001e:68162**
**Oehrle, Dick** Context-sensitive node admissibility. (English summary) **2001k:68062**
**Păun, Gheorghe** ★ Marcus contextual grammars. **2001k:68077**
**Pentus, M. R.** The Lambek calculus and formal grammars. (Russian. English and Russian summaries)

**Pinto, Javier** (*with* Sernadas, Amílcar; Sernadas, Cristina; Mateus, Paulo) Non-determinism and uncertainty in the situation calculus. (English summary) (*see* **2001a:68007**)
**Plátek, Martin** *see* **Jančar, Petr et al., 2001a:68056**
**Podelski, Andreas** *see* **Müller, Martin[2] et al., 2001c:68115**
**Rodeh, Michael** (*with* Sagiv, Mooly) Finding circular attributes in attribute grammars. (English summary) **2001m:68028**
**(Rogers, James)** *see* **Meeting: Mathematics of Language, 2001i:68006**
**Sagiv, Mooly** *see* **Rodeh, Michael, 2001m:68028**
**San Pietro, P.** *see* **Cherubini, Alessandra, 2001k:68065**
**Sernadas, Amílcar** *see* **Pinto, Javier et al., (2001a:68007)**
**Sernadas, Cristina** *see* **Pinto, Javier et al., (2001a:68007)**
**Vauzeilles, Jacqueline** *see* **Abrusci, V. Michele et al., 2001b:03031**
**Vermeulen, C. F. M.** Text structure and proof structure. (English summary) **2001c:03062**
**Vijay-Shanker, K.** *see* **Frank, Robert Evan et al., 2001m:68084**
**Villemonte de la Clergerie, Eric** *see* **Alonso Pardo, Miguel Á. et al., 2001k:68064**
**Vogel, Jörg** *see* **Jančar, Petr et al., 2001a:68056**

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**Conference:**
**Natural Language Processing** ★ Natural language processing—NLP 2000. **2001c:68008**
**Lecture Notes in Computer Science** ★ Natural language processing—NLP 2000. **2001c:68008**
**Meeting:**
**Mathematics of Language** ★ Sixth Meeting on Mathematics of Language (MOL6). **2001i:68006**
**Natural language processing—NLP 2000** ★ Natural language processing—NLP 2000. **2001c:68008**
**Orlando, FL** ★ Sixth Meeting on Mathematics of Language (MOL6). **2001i:68006**
**Patras** ★ Natural language processing—NLP 2000. **2001c:68008**

## 68T99 None of the above, but in this section

**Albers, Susanne** (*with* Henzinger, Monika R.) Exploring unknown environments. (*see* **2001d:68025**)
**Chen, Rong** (*with* Jiang, Yun Fei) Model-based diagnosis system with constraints. (Chinese. English and Chinese summaries)
**Chen, Wei[5]** *see* **Chiang, Ding-An et al., 2001e:68172**
**Chiang, Ding-An** (*with* Chen, Wei[5]; Wang, Yi-Fan; Hsu, Chen-Fang) The irrelevant values problem in the ID3 tree. (English summary) **2001e:68172**
**Coletti, Giulianella** (*with* Scozzafava, Romano) The role of coherence in eliciting and handling imprecise probabilities and its application to medical diagnosis. (English summary)
**Fang, Jian** *see* **Wang, Zhenyuan et al.**
**Franco, John** Finding optimal Boolean classifiers. (English summary) **2001e:68173**
**Ha, Ming Hu** *see* **Huang, Dong Mei et al.**
**Henzinger, Monika R.** *see* **Albers, Susanne, (2001d:68025)**
**Hsu, Chen-Fang** *see* **Chiang, Ding-An et al., 2001e:68172**
**Huang, Dong Mei** (*with* Ha, Ming Hu; Wang, Xi Zhao) Comparison between decision tree and fuzzy decision tree. (Chinese. English and Chinese summaries)
**Jiang, Yun Fei** *see* **Chen, Rong**
**Leung, Kwong-Sak** *see* **Wang, Zhenyuan et al.**
**Moshkov, Mikhail** Deterministic and nondeterministic decision trees for rough computing. (English summary) **2001c:68122**
**Nguyen, Hung Son** (*with* Nguyen, Sinh Hoa) Rough sets and association rule generation. (English summary) **2001d:68216**
**Nguyen, Sinh Hoa** *see* **Nguyen, Hung Son, 2001d:68216**
**Pollandt, Silke** ★ Fuzzy-Begriffe. (German. German summary) [Fuzzy concepts] **2001a:68101**
**Scozzafava, Romano** *see* **Coletti, Giulianella**
**Stefanyuk, V. L.** *see* **Zhozhikashvili, A. V., 2001c:68123**
**Stumptner, Markus** (*with* Wotawa, Franz) Diagnosing tree-structured systems. (English summary)
**Wang, Xi Zhao** *see* **Huang, Dong Mei et al.**
**Wang, Yi-Fan** *see* **Chiang, Ding-An et al., 2001e:68172**
**Wang, Zhenyuan** (*with* Leung, Kwong-Sak; Wong, Man-Leung; Fang, Jian; Xu, Kebin) Nonlinear nonnegative multiregressions based on Choquet integrals. (English summary)
**Wong, Man-Leung** *see* **Wang, Zhenyuan et al.**
**Wotawa, Franz** A variant of Reiter's hitting-set algorithm. (English summary)
— *see also* **Stumptner, Markus**
**Xu, Kebin** *see* **Wang, Zhenyuan et al.**
**Zhozhikashvili, A. V.** (*with* Stefanyuk, V. L.) Category-theoretic patterns for problems of artificial intelligence. (Russian. Russian summary) **2001c:68123**

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**Bender, Michael A.** (*with* Fernández, Antonio[1]; Ron, Dana; Sahai, Amit; Vadhan, Salil) The power of a pebble: exploring and mapping directed graphs. (*see* **2001d:68026**)
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## 68U10 Image processing

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**Reineri, M. T.** *see* **Favella, L. et al., (2001i:65003)**
**Ritter, Gerhard X.** *see* **Zapata, Jaime L., 2001c:65176**
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## 68U15 Text processing; mathematical typography

**Verhoeven, Richard** ★ The design of the Math $\int$ pad editor. (Dutch summary)

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**Amir, Amihood** (*with* Lewenstein, Moshe; Lewenstein, Noa) Pattern matching in hypertext. (English summary) **2001e:68185**
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## 68U20 Simulation [see also 65Cxx]

**Chen, Ying Wu** *see* **Liao, Liang Cai et al.**
**Liao, Liang Cai** (*with* Tan, Yue Jin; Chen, Ying Wu; Wang, Dong Feng) Fuzzy simulation theory summarizing and discussing. (Chinese. English and Chinese summaries)
**Tan, Yue Jin** *see* **Liao, Liang Cai et al.**
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**Machida, Motoya** *see* **Fill, James Allen et al., (2001d:65005)**
**Merriman, Barry** *see* **Ruuth, Steven J., 2001c:35107**
**Murdoch, Duncan J.** *see* **Fill, James Allen et al., (2001d:65005)**
**Pogorelov, D. Yu.** *see* **Golubev, Yu. F.**
**Rosenthal, Jeffrey S.** *see* **Fill, James Allen et al., (2001d:65005)**
**Ruuth, Steven J.** (*with* Merriman, Barry) Convolution-generated motion and generalized Huygens' principles for interface motion. (English summary) **2001c:35107**

## 68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)

**Cohen, Edith** (*with* Kaplan, Haim) Exploiting regularities in web traffic patterns for cache replacement. (English summary) (*see* **2001f:68004**)
— (*with* Kaplan, Haim; Zwick, Uri) Connection caching. (English summary) (*see* **2001f:68004**)
**Kalyanasundaram, Bala** (*with* Noga, John; Pruhs, Kirk R.; Woeginger, Gerhard J.) Caching for web searching. (English summary) (*see* **2001f:68005**)
**Kaplan, Haim** *see* **Cohen, Edith et al., (2001f:68004)** *and* **(2001f:68004)**
**Noga, John** *see* **Kalyanasundaram, Bala et al., (2001f:68005)**
**Pruhs, Kirk R.** *see* **Kalyanasundaram, Bala et al., (2001f:68005)**
**Woeginger, Gerhard J.** *see* **Kalyanasundaram, Bala et al., (2001f:68005)**
**Zwick, Uri** *see* **Cohen, Edith et al., (2001f:68004)**

Items with secondary classifications in 68U35

**Abiteboul, Serge** (*with* Vianu, Victor) Queries and computation on the web. (English summary) **2001c:68036**
**Broder, Andrei Z.** (*with* Mitzenmacher, Michael) Completeness and robustness properties of min-wise independent permutations. (English summary) **2001j:68092**
**Etzioni, Oren** (*with* Hanks, Steve; Jiang, Tao[1]; Madani, Omid) Optimal information gathering on the internet with time and cost constraints. (English summary) **2001c:90026**
**Hanks, Steve** *see* **Etzioni, Oren et al., 2001c:90026**
**Jiang, Tao[1]** *see* **Etzioni, Oren et al., 2001c:90026**
**Madani, Omid** *see* **Etzioni, Oren et al., 2001c:90026**
**Mitzenmacher, Michael** *see* **Broder, Andrei Z., 2001j:68092**
**Resnick, Sidney I.** (*with* Rootzén, Holger) Self-similar communication models and very heavy tails. (English summary) **2001j:60172**
**Rootzén, Holger** *see* **Resnick, Sidney I., 2001j:60172**
**Serdyuk, Yury P.** Partial evaluations in a set-theoretic query language for the WWW. (English summary) (*see* **2001c:68005**)
**Vianu, Victor** *see* **Abiteboul, Serge, 2001c:68036**
**Woeginger, Gerhard J.** Monge strikes again: optimal placement of web proxies in the internet. (English summary) **2001h:90108**

## 68U99 None of the above, but in this section

**Abiteboul, Serge** (*with* Vianu, Victor; Fordham, Brad; Yesha, Yelena) Relational transducers for electronic commerce. (English summary) **2001m:68176**
**Bogaert, J.** (*with* Rousseau, R.) Spatial aggregation of two-dimensional objects in raster data structures. (English summary)
**Fordham, Brad** *see* **Abiteboul, Serge et al., 2001m:68176**
**Rousseau, R.** *see* **Bogaert, J.**
**Vianu, Victor** *see* **Abiteboul, Serge et al., 2001m:68176**
**Yesha, Yelena** *see* **Abiteboul, Serge et al., 2001m:68176**

Items with secondary classifications in 68U99

**Antipov, Eugene** *see* **Wood, David Harlan et al., (2001f:68031)**
**Cedeño, Walter** *see* **Wood, David Harlan et al., (2001f:68031)**
**Chen, Junghuei** *see* **Wood, David Harlan et al., (2001f:68031)**
**Lemieux, Bertrand** *see* **Wood, David Harlan et al., (2001f:68031)**
**Wood, David Harlan** (*with* Chen, Junghuei; Antipov, Eugene; Lemieux, Bertrand; Cedeño, Walter) In vitro selection for a OneMax DNA evolutionary computation. (English summary) (*see* **2001f:68031**)

## 68Wxx Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}

**Reingold, Edward M.** Algorithm design and analysis techniques. (English summary) (*see* **2001f:68001**)

Items with secondary classifications in 68Wxx

**(Atallah, Mikhail J.)** *see* **Handbook: Algorithms and theory of computation, 2001f:68001**
**(Halldórsson, Magnús M.)** *see* **Algorithm theory—SWAT 2000, 2001f:68005**

Items listed otherwise than by author

**Algorithm theory—SWAT 2000** ★ Algorithm theory—SWAT 2000. **2001f:68005**
**Bergen** ★ Algorithm theory—SWAT 2000. **2001f:68005**
**Handbook:**
  **Algorithms and theory of computation** ★ Algorithms and theory of computation handbook. **2001f:68001**
**Lecture Notes in Computer Science** ★ Algorithm theory—SWAT 2000. **2001f:68005**
**Workshop:**
  **Algorithm Theory** ★ Algorithm theory—SWAT 2000. **2001f:68005**

## 68W01 General

Items with secondary classifications in 68W01

**(Aggarwal, Alok)** *see* **Algorithms and computation, 2001f:68007**
**(Pandu Rangan, C.)** *see* **Algorithms and computation, 2001f:68007**

Items listed otherwise than by author

**Algorithms and computation** ★ Algorithms and computation. **2001f:68007**
**Chennai** ★ Algorithms and computation. **2001f:68007**
**Lecture Notes in Computer Science** ★ Algorithms and computation. **2001f:68007**
**Symposium:**
  **Algorithms and Computation** ★ Algorithms and computation. **2001f:68007**

## 68W05 Nonnumerical algorithms

**Allauzen, Cyril** (*with* Crochemore, Maxime; Raffinot, Mathieu) Factor oracle: a new structure for pattern matching. (English summary) **2001e:68184**
— (*with* Raffinot, Mathieu) Simple optimal string matching algorithm. (English summary) **2001b:68151**
**Amir, Amihood** (*with* Lewenstein, Moshe; Lewenstein, Noa) Pattern matching in hypertext. (English summary) **2001e:68185**
— (*with* Călinescu, Gruia) Alphabet-independent and scaled dictionary matching. (English summary) **2001b:68152**
— (*with* Aumann, Yonatan; Landau, Gad M.; Lewenstein, Moshe; Lewenstein, Noa) Pattern matching with swaps. (English summary) **2001g:68099**
**Apostolico, Alberto** General pattern matching. (*see* **2001f:68001**)
**Arikawa, Setsuo** *see* **Shibata, Yusuke et al., (2001e:68007)**
**Aumann, Yonatan** *see* **Amir, Amihood et al., 2001g:68099**
**Awerbuch, Baruch** (*with* Kobourov, Stephen G.) Polylogarithmic-overhead piecemeal graph exploration. (English summary) (*see* **2001i:68007**)
**Bespamyatnykh, S. N.** (*with* Segal, Michael) Enumerating longest increasing subsequences and patience sorting. (English summary) **2001h:68160**
**Brodal, Gerth Stolting** (*with* Pedersen, Christian N. S.) Finding maximal quasiperiodicities in strings. (English summary) (*see* **2001e:68007**)
**Călinescu, Gruia** *see* **Amir, Amihood, 2001b:68152**
**Chen, Gui Lin** *see* **Wang, Yong Cheng et al.**
**Cheng, Siu-Wing** Exact Steiner trees in graphs and grid graphs. (*see* **2001g:05001**)
**Chikalov, Igor** *see* **Moshkov, Mikhail, 2001c:68133**
**Colboura, Charles J.** (*with* Xue, Guoliang) Grade of service Steiner trees in series-parallel networks. (English summary) (*see* **2001g:05001**)
**Crochemore, Maxime** (*with* Hancart, Christophe) Pattern matching in strings. (*see* **2001f:68001**)
— (*with* Iliopoulos, Costas S.; Korda, Maureen; Reid, James F.) A failure function for multiple two-dimensional pattern matching. (English summary) **2001k:68147**
— *see also* **Allauzen, Cyril et al., 2001e:68184**
**Eppstein, David** Fast hierarchical clustering and other applications of dynamic closest pairs. (English summary)
**Gabow, Harold N.** (*with* Kaplan, Haim; Tarjan, Robert E.) Unique maximum matching algorithms. (English summary) (*see* **2001f:68004**)
**Gantait, Amitranjan** *see* **Shankar, Priti et al., 2001c:68134**
**Golubitskiĭ, O. D.** Computation of distances on strings. (Russian. Russian summary) **2001f:68133**
**Gonzalez, T. F.** Simple algorithms for the on-line multidimensional dictionary and related problems. (English summary) **2001c:68132**
**Han, Ke Song** *see* **Wang, Yong Cheng et al.**
**Hancart, Christophe** *see* **Crochemore, Maxime, (2001f:68001)**
**He, Yong[1]** (*with* Kellerer, Hans[2]; Kotov, Vladimir) Linear compound algorithms for the partitioning problem. (English summary) **2001f:68134**

**Holub, Jan** (*with* Melichar, Bořivoj) Approximate string matching using factor automata. (English summary) **2001j:68137**
**Iliopoulos, Costas S.** *see* **Crochemore, Maxime et al., 2001k:68147**
**Kao, Ming-Yang** (*with* Lam, Tak-Wah; Sung, Wing-Kin; Ting, Hing-Fung) A faster and unifying algorithm for comparing trees. (English summary) (*see* **2001e:68007**)
**Kaplan, Haim** *see* **Gabow, Harold N. et al., (2001f:68004)**
**Kärkkäinen, Juha** (*with* Ukkonen, Esko) Two- and higher-dimensional pattern matching in optimal expected time. (English summary) **2001g:68100**
— (*with* Navarro, Gonzalo; Ukkonen, Esko) Approximate string matching over Ziv-Lempel compressed text. (English summary) (*see* **2001e:68007**)
**Kellerer, Hans[2]** *see* **He, Yong[1] et al., 2001f:68134**
**Khuller, Samir** (*with* Raghavachari, Balaji) Advanced combinatorial algorithms. (*see* **2001f:68001**)
**Kim, Sun** A new string-pattern matching algorithm using partitioning and hashing efficiently. (English summary)
**Kobourov, Stephen G.** *see* **Awerbuch, Baruch, (2001i:68007)**
**Korda, Maureen** *see* **Crochemore, Maxime et al., 2001k:68147**
**Kotov, Vladimir** *see* **He, Yong[1] et al., 2001f:68134**
**Kranakis, Evangelos** (*with* Krizanc, Danny; Luccio, Flaminia L.) On recognizing a string on an anonymous ring. (English summary) **2001k:68148**
**Krizanc, Danny** *see* **Kranakis, Evangelos et al., 2001k:68148**
**Lam, Tak-Wah** *see* **Kao, Ming-Yang et al., (2001e:68007)**
**Landau, Gad M.** *see* **Amir, Amihood et al., 2001g:68099**
**Lewenstein, Moshe** *see* **Amir, Amihood et al., 2001e:68185** *and* **2001g:68099**
**Lewenstein, Noa** *see* **Amir, Amihood et al., 2001e:68185** *and* **2001g:68099**
**Luccio, Flaminia L.** *see* **Kranakis, Evangelos et al., 2001k:68148**
**de Macedo Mourelle, Luiza** *see* **Nedjah, Nadia, 2001e:68188**
**Madhavan, Maya** *see* **Shankar, Priti et al., 2001c:68134**
**Mäkinen, Erkki** Constructing a binary tree efficiently from its traversals. (English summary) **2001e:68186**
**Makino, Kazuhisa** A linear time algorithm for recognizing regular Boolean functions. (English summary) (*see* **2001f:68007**)
**Matsumoto, Tetsuya** *see* **Shibata, Yusuke et al., (2001e:68007)**
**Melichar, Bořivoj** *see* **Holub, Jan, 2001j:68137**
**Misra, Jayadev** A walk over the shortest path: Dijkstra's algorithm viewed as fixed-point computation. (English summary) (*see* **2001i:68012**)
**Moshkov, Mikhail** (*with* Chikalov, Igor) On algorithm for constructing of decision trees with minimal depth. (English summary) **2001c:68133**
**Myers, Gene** A fast bit-vector algorithm for approximate string matching based on dynamic programming. (English summary) **2001m:68177**
**Navarro, Gonzalo** (*with* Tarhio, Jorma) Boyer-Moore string matching over Ziv-Lempel compressed text. (English summary) (*see* **2001e:68007**)
— (*with* Raffinot, Mathieu) Fast and flexible string matching by combining bit-parallelism and suffix automata. (English summary) **2001m:68178**
— Improved approximate pattern matching on hypertext. (English summary) **2001e:68187**
— *see also* **Kärkkäinen, Juha et al., (2001e:68007)**
**Nedjah, Nadia** (*with* de Macedo Mourelle, Luiza) Dynamic deterministic pattern-matching. (English summary) **2001e:68188**
**Nemytikova, L. A.** The use of nondeterministic finite automata for accelerating search in text databases. (Russian. Russian summary)
**Neyer, Gabriele** (*with* Wagner, Frank O.) Labeling downtown. (English summary) **2001d:68228**
**Parida, Laxmi** Some results on flexible-pattern discovery. (English summary) (*see* **2001e:68007**)
**Pedersen, Christian N. S.** *see* **Brodal, Gerth Stolting, (2001e:68007)**
**Pe'er, Itsik** (*with* Shamir, Ron; Sharan, Roded) Incomplete directed perfect phylogeny. (English summary) (*see* **2001e:68007**)
**Raffinot, Mathieu** *see* **Allauzen, Cyril et al., 2001b:68151**; **2001e:68184** *and* **Navarro, Gonzalo, 2001m:68178**
**Raghavachari, Balaji** *see* **Khuller, Samir, (2001f:68001)**
**Rahmann, Sven** (*with* Rivals, Eric) Exact and efficient computation of the expected number of missing and common words in random texts. (English summary) (*see* **2001e:68007**)
**Reid, James F.** *see* **Crochemore, Maxime et al., 2001k:68147**
**Rick, Claus** Efficient computation of all longest common subsequences. (English summary) (*see* **2001f:68005**)
— Simple and fast linear space computation of longest common subsequences. **2001h:68161**
**Rivals, Eric** *see* **Rahmann, Sven, (2001e:68007)**
**Sanders, Beverly A.** The shortest path in parallel. (English summary) **2001m:68179**
**Sandholm, Tuomas W.** (*with* Suri, Subhash) Improved algorithms for optimal winner determination in combinatorial auctions and generalizations. (English summary) (*see* **2001h:68007**)
**Segal, Michael** *see* **Bespamyatnykh, S. N., 2001h:68160**
**Seibert, Sebastian** (*with* Unger, Walter) The hardness of placing street names in a Manhattan type map. (English summary) **2001d:68229**
**Shamir, Ron** *see* **Pe'er, Itsik et al., (2001e:68007)**
**Shankar, Priti** (*with* Gantait, Amitranjan; Yuvaraj, A. R.; Madhavan, Maya) A new algorithm for linear regular tree pattern matching. (English summary) **2001c:68134**
**Sharan, Roded** *see* **Pe'er, Itsik et al., (2001e:68007)**
**Shibata, Yusuke** (*with* Matsumoto, Tetsuya; Takeda, Masayuki; Shinohara, Ayumi; Arikawa, Setsuo) A Boyer-Moore type algorithm for compressed pattern matching. (English summary) (*see* **2001e:68007**)
**Shibuya, Tetsuo[2]** Constructing the suffix tree of a tree with a large alphabet. (English summary) **2001h:68162**
— Computing the $n \times m$ shortest paths efficiently. (English summary) **2001j:68138**
**Shinohara, Ayumi** *see* **Shibata, Yusuke et al., (2001e:68007)**
**Sung, Wing-Kin** *see* **Kao, Ming-Yang et al., (2001e:68007)**
**Suri, Subhash** *see* **Sandholm, Tuomas W., (2001h:68007)**
**Takeda, Masayuki** *see* **Shibata, Yusuke et al., (2001e:68007)**
**Tarhio, Jorma** *see* **Navarro, Gonzalo, (2001e:68007)**
**Tarjan, Robert E.** *see* **Gabow, Harold N. et al., (2001f:68004)**
**Ting, Hing-Fung** *see* **Kao, Ming-Yang et al., (2001e:68007)**
**Tomescu, Ioan** A cascade version of Dantzig's inductive algorithm for matrices over semilattice-ordered semigroups. (English summary) **2001m:68180**
**Ukkonen, Esko** *see* **Kärkkäinen, Juha et al., 2001g:68100** *and* **(2001e:68007)**
**Unger, Walter** *see* **Seibert, Sebastian, 2001d:68229**
**Wagner, Frank O.** *see* **Neyer, Gabriele, 2001d:68228**
**Wang, Jason T. L.** (*with* Zhang, Kaizhong) Identifying consensus of trees through alignment. (English summary) **2001e:68189**
**Wang, Yong Cheng** (*with* Chen, Gui Lin; Han, Ke Song) A faster algorithm for single pattern matching. (Chinese. English and Chinese summaries)
**Warme, D. M.** (*with* Winter, Pawel; Zachariasen, M.) Exact algorithms for plane Steiner tree problems: a computational study. (English summary) (*see* **2001g:05001**)
**Winter, Pawel** *see* **Warme, D. M. et al., (2001g:05001)**
**Wu, Bang Ye** Polynomial time algorithms for some minimum latency problems. (English summary) **2001e:68190**
**Xue, Guoliang** *see* **Colbourn, Charles J., (2001g:05001)**
**Yuvaraj, A. R.** *see* **Shankar, Priti et al., 2001c:68134**
**Zachariasen, M.** *see* **Warme, D. M. et al., (2001g:05001)**
**Zhang, Kaizhong** *see* **Wang, Jason T. L., 2001e:68189**

## Items with secondary classifications in 68W05

**Aleksandrov, Lyudmil G.** (*with* Djidjev, Hristo N.) A dynamic algorithm for maintaining graph partitions. (English summary) (*see* **2001f:68005**)
**Alon, Noga** (*with* Dietzfelbinger, Martin; Miltersen, Peter Bro; Petrank, Erez; Tardos, Gábor) Linear hash functions. (English summary) **2001b:68026**
**Andersson, Arne** (*with* Hagerup, Torben; Håstad, Johan; Petersson, Ola) Tight bounds for searching a sorted array of strings. (English summary) **2001j:68043**
**Azar, Yossi** (*with* Epstein, Leah) On-line scheduling with precedence constraints. (English summary) (*see* **2001f:68005**)
**Berger, Ulrich** (*with* Schwichtenberg, Helmut; Seisenberger, Monika) The Warshall algorithm and Dickson's lemma: two examples of realistic program extraction. (English summary) **2001k:68016**
**Buhrman, Harry** (*with* Franklin, Matthew; Garay, Juan A.; Hoepman, Jaap-Henk; Tromp, John; Vitányi, Paul M. B.) Mutual search. (English summary) **2001m:68010**
**Černá, Ivana** (*with* Klíma, Ondřej; Srba, Jiří) Pattern equations and equations with stuttering. (English summary) **2001e:68079**
**Chen, Weimin[2]** Multi-subsequence searching. **2001m:68038**
**Cohen, Edith** (*with* Zwick, Uri) All-pairs small-stretch paths. (English summary) **2001m:68141**
**Czumaj, Artur** (*with* Gąsieniec, Leszek) On the complexity of determining the period of a string. (English summary) (*see* **2001e:68007**)
**Dietzfelbinger, Martin** *see* **Alon, Noga et al., 2001b:68026**
**Djidjev, Hristo N.** *see* **Aleksandrov, Lyudmil G., (2001f:68005)**
**Epstein, Leah** *see* **Azar, Yossi, (2001f:68005)**
**Esteves dos Santos, José Luís** *see* **Martins, Ernesto de Queirós Vieira et al., 2001b:68101**
**Franklin, Matthew** *see* **Buhrman, Harry et al., 2001m:68010**
**Garay, Juan A.** *see* **Buhrman, Harry et al., 2001m:68010**
**Gąsieniec, Leszek** *see* **Czumaj, Artur, (2001e:68007)**
**(Giancarlo, Raffaele)** *see* **Combinatorial pattern matching, 2001e:68007**
**Goldberg, Leslie Ann** (*with* Jerrum, Mark R.) Randomly sampling molecules. (English summary) **2001f:05122**
**Hagerup, Torben** Improved shortest paths on the word RAM. (English summary) **2001g:68043**
— *see also* **Andersson, Arne et al., 2001j:68043**
**Håstad, Johan** *see* **Andersson, Arne et al., 2001j:68043**
**Ho, Chin Wen** *see* **Peng, Shen Lung et al., 2001d:68182**
**Hoepman, Jaap-Henk** *see* **Buhrman, Harry et al., 2001m:68010**
**Hsu, Tsan-Sheng** *see* **Peng, Shen Lung et al., 2001d:68182**
**Jerrum, Mark R.** *see* **Goldberg, Leslie Ann, 2001f:05122**
**Karp, Richard M.** The genomics revolution and its challenges for algorithmic research. (English summary)
**Katoen, Joost-Pieter** (*with* Nymeyer, Albert) Pattern-matching algorithms based on term rewrite systems. (English summary) **2001c:68077**
**Klíma, Ondřej** *see* **Černá, Ivana et al., 2001e:68079**
**Ko, Ming-Tat** *see* **Peng, Shen Lung et al., 2001d:68182**
**Landau, Gad M.** (*with* Ziv-Ukelson, Michal) On the shared substring alignment problem. **2001g:92020**
**Martins, Ernesto de Queirós Vieira** (*with* Pascoal, Marta Margarida Braz; Esteves dos Santos, José Luís) Deviation algorithms for ranking shortest paths. (English summary) **2001b:68101**
**Miltersen, Peter Bro** *see* **Alon, Noga et al., 2001b:68026**
**Mouchard, Laurent** *see* **Régnier, Mireille, (2001e:68007)**
**Nepomnyashchaya, A. Sh.** Comparison of Prim-Dijkstra and Kraskal algorithms using an associative parallel processor. (Russian. English and Ukrainian summaries)
**Nymeyer, Albert** *see* **Katoen, Joost-Pieter, 2001c:68077**
**Pascoal, Marta Margarida Braz** *see* **Martins, Ernesto de Queirós Vieira et al., 2001b:68101**
**Peng, Shen Lung** (*with* Ho, Chin Wen; Hsu, Tsan-Sheng; Ko, Ming-Tat; Tang, Chuan Yi) Edge and node searching problems on trees. (English summary) **2001d:68182**
**Petersson, Ola** *see* **Andersson, Arne et al., 2001j:68043**
**Petrank, Erez** *see* **Alon, Noga et al., 2001b:68026**
**Régnier, Mireille** (*with* Mouchard, Laurent) Periods and quasiperiods characterization. (English summary) (*see* **2001e:68007**)
**Rytter, Wojciech** Algorithms on compressed strings and arrays. (English summary) **2001e:68055**
**Samphaiboon, N.** (*with* Yamada, Takeo) Heuristic and exact algorithms for the precedence-constrained knapsack problem. (English summary) **2001i:90069**
**(Sankoff, David)** *see* **Combinatorial pattern matching, 2001e:68007**
**Schwichtenberg, Helmut** *see* **Berger, Ulrich et al., 2001k:68016**
**Seisenberger, Monika** *see* **Berger, Ulrich et al., 2001k:68016**

**Srba, Jiří** *see* **Černá, Ivana et al., 2001e:68079**
**Suri, Subhash** *see* **Zhou, Yunhong, 2001f:68132**
**Tang, Chuan Yi** *see* **Peng, Shen Lung et al., 2001d:68182**
**Tardos, Gábor** *see* **Alon, Noga et al., 2001b:68026**
**Tromp, John** *see* **Buhrman, Harry et al., 2001m:68010**
**Vitányi, Paul M. B.** *see* **Buhrman, Harry et al., 2001m:68010**
**Yamada, Takeo** *see* **Samphaiboon, N., 2001i:90069**
**Zhou, Yunhong** (*with* Suri, Subhash) Analysis of a bounding box heuristic for object intersection. (English summary) **2001f:68132**
**Ziv-Ukelson, Michal** *see* **Landau, Gad M., 2001g:92020**
**Zwick, Uri** *see* **Cohen, Edith, 2001m:68141**

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**Combinatorial pattern matching** ★ Combinatorial pattern matching. **2001e:68007**
**Lecture Notes in Computer Science** ★ Combinatorial pattern matching. **2001e:68007**
**Montreal, QC** ★ Combinatorial pattern matching. **2001e:68007**
**Symposium:**
**Combinatorial Pattern Matching** ★ Combinatorial pattern matching. **2001e:68007**

## 68W10 Parallel algorithms

**Adler, Micah** (*with* Byers, John W.; Karp, Richard M.) Parallel sorting with limited bandwidth. (English summary) **2001k:68149**
**Ahn, Joonseon** (*with* Han, Taisook) An analytical method for parallelization of recursive functions. (English summary)
**Aleksandrov, V. N.** (*with* Megson, G. M.) ★ Parallel algorithms for knapsack type problems. (English summary) **2001g:68101**
**Allmaier, Susann** ★ Parallele Lösungen für stochastische Modellierung. (German) [Parallel solutions for stochastic modelling]
**Alsuwaiyel, Muhammad H.** An optimal parallel algorithm for the multiselection problem. (English summary)
**Barve, Rakesh** (*with* Kallahalla, Mahesh; Varman, Peter J.; Vitter, Jeffrey Scott) Competitive parallel disk prefetching and buffer management. (English summary) **2001b:68153**
**Bar-Yossef, Ziv** *see* **Nisan, Noam, (2001d:68025)**
**Blelloch, Guy E.** (*with* Maggs, Bruce M.) Parallel algorithms. (*see* **2001f:68001**)
**Byers, John W.** *see* **Adler, Micah et al., 2001k:68149**
**Chen, Danny Z.** (*with* Chen, Wei[3]; Wada, Koichi; Kawaguchi, K.) Parallel algorithms for partitioning sorted sets and related problems. (English summary) **2001c:68135**
**Chen, Wei[3]** *see* **Chen, Danny Z. et al., 2001c:68135**
**Chen, Yu-Wei** (*with* Chung, Kuo-Liang) Fault-tolerant algorithm for fast Fourier transform on hypercubes. (English summary)
**Chung, Kuo-Liang** *see* **Chen, Yu-Wei**
**Dahlhaus, Elias** Parallel algorithms for hierarchical clustering and applications to split decomposition and parity graph recognition. (English summary) **2001b:68154**
**Dolzmann, Andreas** (*with* Gloor, Oliver; Sturm, Thomas) Approaches to parallel quantifier elimination. (English summary) (*see* **2001m:68004**)
**Ferreira, Afonso** (*with* Schabanel, Nicolas) A randomized BSP/CGM algorithm for the maximal independent set problem. (English summary) **2001b:68155**
**Fürer, Martin** Parallel algorithms and complexity. (English summary) **2001f:68135**
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## 68W35 VLSI algorithms

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